

PRODUCT ENVIRONMENTAL FOOTPRINT

CATEGORY RULES (PEFCR)

APPAREL AND FOOTWEAR

ANNEX V

Version 3.1

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Technical facilitation: 2BPolicy

Technical lead: Quantis

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Quantis project team	Angela Adams, Quantis, <i>Senior Sustainability Consultant</i> Emilie Carasso, Quantis, <i>Senior Sustainability Consultant</i> Mireille Faist, PhD, Quantis, <i>Senior Sustainability Consultant</i> Sébastien Humbert, PhD, Quantis, <i>Senior Sustainability Consultant</i> Conrad Leuthold, Quantis, <i>Senior Sustainability Consultant</i> Josephine Pratiwi, Quantis, <i>Senior Sustainability Consultant</i> Pauline Chrobot, Quantis, <i>Sustainability Consultant</i> Stefan Frehland, Quantis, <i>Sustainability Consultant</i> Colin Jury, Quantis, <i>Sustainability Consultant</i> Christian Käser, Quantis, <i>Sustainability Consultant</i> Maria Luisa Toppi, Quantis, <i>Sustainability Consultant</i>
Technical Secretariat	See cover page
Associated files	...

This report has been prepared by:

Quantis Switzerland

Rue de la Gare de Triage 5,
1020 Renens, Switzerland

E-mail: hello@quantis.com

Web: www.quantis.com



Under the facilitation of:

2BPolicy

Kostverlorenstraat 19-B
1052GT Amsterdam, The Netherlands

E-mail: baptiste@2bpolicy.eu

Web: www.2bpolicy.eu



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Definitions

Sport segment	Product intended primarily for use in an organized or individual capacity related to physical activity and designed with functional elements specifically for the intended use and practiced activity. Product appearance shall not be the sole characteristic evaluated to determine inclusion in this segment.
Legging Segment (Subcategory 7)	Form fitting piece of apparel designed to be worn on the lower body, but which does not cover the user's foot.
Thick Classic Segment (Subcategory 7)	Materials made from spun or filament yarns which have a linear density greater than 100 denier.
Sheer Segment (Subcategory 7)	Materials made from filament yarns which have a linear density less than 100 denier.
Infant segment	Product is intended to be used by pre-walking consumers, footwear size <27.
Children segment	Product is intended to be used by consumers, footwear size <35.
Adult segment	Product is intended to be used by consumers who are neither infants nor children.

Footwear with heel segment	Footwear with an added heel, made with a different material than the sole. The heel is attached with a metallic part (e.g. nail, screw, etc.) to the sole. The heel fatigue test is applicable to heel height $\geq 5\text{cm}$ (toplift NOT included), heel attachment test is applicable to heel height $\geq 5\text{cm}$ (toplift included).
Sport footwear with cleats segment	Footwear for sports needing cleats to enhance traction on a turf or other defined field. The activity can take place either indoors or outdoors. Cleats can be made from metal, plastic or rubber. The cleats are a major design element of the footwear.
Sport footwear for linear sports segment	Footwear for sports that consist of going forward in a linear motion such as jogging. These sports can be practiced indoors or outdoors, but not in the wilderness. The terrain will be stabilised, but not necessarily standardised. The sole will be intended for asphalt, concrete, gravel, or other cover that does not systematically require cleats.
Sport footwear for multidirectional sports segment	Footwear for sports that engage in agile movement in multiple directions such as basketball, racket sports, etc. Footwear which are not meant for a specific activity but made for daily use in an active capacity shall be considered part of this segment.
Sport slippers segment	Thin footwear intended for sports where foot precision is important. This includes sports such as ballet, boxing, climbing and other activities which are practiced on a specific surface, and which are not intended for prolonged walking.
Sport footwear for outdoor sport segment	Footwear for outdoor sports practiced on undefined and unnormalised terrain. The soles for this footwear are designed to handle surfaces such as mud, forest trails, loose or packed soil and other natural substrates.
Sport footwear for water sports segment	Footwear for sports intentionally performed with direct and prolonged contact to either fresh or salt water.

Part I: Physical Durability Test Conditions

Product Definition

For physical durability testing a product is defined by an individual and unique specific material composition, material construction, fabric weight, dyeing method and fabric treatment and finishes. If one of these areas differs, the same physical durability score cannot be applied and new tests must be conducted for the differing product. If different suppliers are used for any component materials in the product it will be assumed the physical durability does not change for the products. It is the responsibility of the producer to insure this is the case.

For a product available in different colourways:

- For apparel, at the minimum the darkest of the available colourways shall be run for physical durability tests. Additional tests may be run on additional colourways with the average result used for calculating the final product score. If a darker colourway of an existing product is released after the initial tests have been run the new darkest colourway must be tested. If the results are within 5% of the initial test results the initial test results may be used, otherwise the results need to be updated for determining the lifetime modifier.
- For footwear, durability tests shall be performed on the best-selling reference for products that are carry over from previous seasons. For new products, the colourway with the highest planned production volume or forecast shall be used.
- The same result score may be applied to all colourways of a specific product if they are produced within 1 year.

Example 1: A t-shirt available in five different colourways (but all the same product per above definition)

- Choose the darkest colour for testing and apply the test results to all 5 t-shirts

Example 2: A 5-pack of socks where 2 or more pairs are different compositions (and thus different products per above definition)

- All unique pairs of socks need to be tested individually and the weighted average score applied to the 5-pack, e.g. 2 pairs of one composition (A), 3 pairs of a different composition (B) would have a score calculated as follows

$$\text{Multipack Score} = \frac{2 \times \text{Product A score} + 3 \times \text{Product B score}}{5}$$

Selecting Samples for Physical Durability Testing

Whenever possible, the materials being tested should come from production quality products. For durability tests where the listed testing method allows for either material or product sampling, material sampling is allowed as long as no further processing occurs and the sampling is conducted on the same material as that which will be assembled into the product. For example, the fabric strength test can be run on bulk material production samples unless the product goes through additional processing (garment wash, heat setting, etc.). Note: Tests that require product evaluation after care cycles (i.e. Dimensional Stability, Spirality and Appearance after washing) shall be conducted at the product level and shall not be conducted at a material level.

Samples shall be selected based on majority composition of the products. Any individual material comprising over 5% of the total composition of the product will need to be tested. All tests shall come from the same subcategory with any further differentiation made based on the most relevant segment for a material. The total score for the product will be calculated based on the weighted average of all individual scores.

Example: A non-sport t-shirt comprised of 70% cotton and 30% polyester where the front panel is a 100% jersey knit cotton and the back panel is a 100% woven polyester.

- The cotton front panel shall be tested according to the Subcategory 1, knit, non-sport testing table to generate an IQM for the first material.
- The polyester back panel shall be tested according to the Subcategory 1, woven, all uses testing table to generate an IQM for the second material.

- The IQM used to determine the product lifetime modifier shall be the lower of the two individual material IQMs.

Apparel Care Cycle Conditions

Follow the specific care instructions on the product's care label. Table 1 shall be used for products with wet wash methods and table 2 shall be used for dry clean only products.

For Dimensional Stability (ISO 6330/ISO 5077) and Spirality (ISO 16322-3) testing the following conditionals shall be used based on the care instructions of the product.

Table 1 – Domestic Wash Conditions for Dimensional Stability and Spirality Tests

Procedure	Repeat	Conditions
Machine Wash	5 cycles	Type A washing machine with detergent 3 (for products with very mild/delicate/hand wash symbol (such as products containing wool or silk), use detergent 7). Ballast: according to Standard Hand Wash: According to ISO wash programs
Line/Flat Dry	After final wash	Follow instructions per ISO 6330
Tumble Dry	After each wash	Type A1. Ballast: according to Standard
Ironing	After final drying	Hand iron

Table 2 – Professional Cleaning Conditions for Dimensional Stability and Spirality Tests

Procedure	Repeat	Conditions
Dry Clean	3 cycles	Dry cleaning shall be conducted using the relevant dry cleaning ISO standard (ISO 3175-2 to 3175-4) based on the care label of the product.
Ironing	After final cycle	

For Appearance after Care Cycle (ISO 15487) testing the following conditions shall be used based on the care instruction of the product. Table 3 shall be used for products with wet wash methods and table 4 shall be used for dry clean only products.

Table 3 – Domestic Wash Conditions for Appearance Tests

Procedure	Repeat	Conditions
Machine Wash	15 cycles Exception: Subcategory 4 and products with hand wash symbol: 5 cycles	Type A washing machine with detergent 3 (for products over 80% use detergent 7). Ballast: according to Standard Hand Wash: According to ISO wash programs
Line/Flat Dry	After 5 washes and after the final wash	Follow instructions per ISO 6330
Tumble Dry	After each of the first 5 washes and then after washes 10 and 15 (Subcategory 4 after each of first 5 washes only)	Type A1. Ballast: according to Standard

Ironing	After final drying	Hand iron
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Table 4 – Professional Cleaning Conditions for Appearance Tests

Procedure	Repeat	Conditions
Dry Clean	5 cycles	Dry cleaning shall be conducted using the relevant dry cleaning ISO standard (ISO 3175-2 to 3175-4) based on the care label of the product.
Ironing	After final cycle	

Apparel Test Conditions

ISO 16322-3: Determination of spirality after laundering

Part 3: Woven and knitted garments

Run test according to procedure B, evaluation of actual product. Use the care cycles regime described above.

ISO 20932-1: Determination of the elasticity of fabrics

Part 1: Strip tests – Method A (min. recovery %)

This test shall be run using Method A with a load of 30N for woven fabrics and 15N for knitted fabrics. Results will be evaluated after a 30 minute relaxation period. Benchmark of 100mm recommended.

ISO 20932-3: Determination of the elasticity of fabrics

Part 3: Narrow fabrics (min. recovery %)

This test shall be run using Method A on a 10 cm length of product and measured mounted on machine after 5 fatigue cycles and one minute recovery.

ISO 13938-1 (or 2): Bursting properties of fabrics

Part 1: Hydraulic or optionally Part 2: pneumatic method for determination of bursting strength and bursting distension (Kpa)

This test shall be run according to the ISO method using the 7.3 cm² sample holder.

EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method

Part 2: Determination of specimen breakdown (cycles)

This test shall be run with a load of 9 kPa to an end point of 2 broken yarns for woven products and 1 broken yarn for knit products.

EN 13770: Determination of the abrasion resistance of knitted footwear garments

This test shall be run using method 2 for complete products on leg form.

ISO 13934-2: Tensile properties of fabrics

Part 2: Determination of maximum force using the grab method (N)

This test shall be run according to the ISO method. The lowest average of horizontal or vertical test results shall be used to determine which of the threshold is met.

ISO 13937-1: Tear properties of fabrics

Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)

This test shall be run according to the ISO method. The lowest average of horizontal or vertical test results shall be used to determine which threshold is met.

ASTM D3939: Test method for snagging resistance of fabrics (Mace)

This test shall be run for 600 revolutions at 60 revolutions per minute.

BS 8479 modified: Method to determine a fabric's propensity to snagging (snagpod)

This test shall be run as outlined in the test method.

ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting

Part 1: Pilling box method

The results for this test shall be evaluated after 10,800 revolutions (180 minutes at 60 revolutions per minute) for each direction.

ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics

Part 2: Fixed load method (mm), Main Fabric or Lining

This test shall be run according to the ISO method and the reported value shall be the average force measurement over 5 measurements on the weakest seam or, failing that, on an inside seam. Refer to standard for the relevant force setting.

ISO 105-E02: Tests for colour fastness, Part E02: Colour fastness to sea water

This test shall be run according to the ISO method.

ISO 105-E03: Tests for colour fastness, Part E03: Colour fastness to chlorinated water

This test shall be run according to the ISO method. The concentration of chlorine shall be 50 milligrams per liter.

ISO 105-B02: Tests for colourfastness, Part B02: Colour fastness to artificial light: Xenon arc fading lamp test

This test shall be run using method 3. Assessment shall be conducted using European A1 conditions on a blue scale rating. No test is necessary on white coloured products. End point: Blue wool 4 graded at 4 on the grey scale.

ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying

Product Aspect: Holes or broken yarn

Assessment rating of grade 1 for presence of defect (hole) or grade 5 for absence of defect (no hole)

Product aspect: Pulled yarn

Assessment rating of grade 1 for presence of defect (pulled yarn) or grade 5 for absence of defect (no pulled yarn)

Appearance of collar & edges: Looseness

Assessment rating of grade 1 for severe or distinct change in appearance, grade 3 for moderate change in appearance or grade 5 for no or negligible change in appearance.

Pilling and fuzzing

Assessment reference ISO 12945-4 and ISO 15487 7.8.4. Assessment rating as follows (half grades are allowed):

- Grade 1 for severe pilling/dense surface fuzzing/dense surface matting
- Grade 2 for distinct pilling/distinct surface fuzzing/distinct surface matting
- Grade 3 for moderate pilling/moderate surface fuzzing/moderate surface matting
- Grade 4 for slight surface pilling/slight surface fuzzing/slight surface matting
- Grade 5 for no change

Collar appearance: Curled or blistered aspect

Assessment rating of grade 1 for severe or distinct change in appearance, grade 3 for moderate change in appearance or grade 5 for no or negligible change in appearance.

Interlining & reinforcements

Assessment rating of grade 1 for severe or distinct change in appearance, grade 3 for moderate change in appearance or grade 5 for no or negligible change in appearance.

Underwire aspect: Piercing

Assessment rating of grade 1 for presence of defect (piercing) or grade 5 for absence of defect (no piercing)

Product aspect: Broken elastane (goes out)

Assessment rating of grade 1 for presence of defect (broken elastane), grade 3 for absence of defect (elastane goes out, but no broken yarn) or grade 5 absence of defect (no defect).

Fabric appearance: Delamination

Assessment rating of grade 1 for presence of defect (delamination) or grade 5 for absence of defect (no delamination)

Shell appearance: Curled or blistered aspect

Assessment rating of grade 1 for severe or distinct change in appearance, grade 3 for moderate change in appearance or grade 5 for no or negligible change in appearance.

Handling of functional accessories

Perform ten iterations on each type of functional accessory in their entire operation.
Assessment rating of grade 1 for functional accessories which work poorly or no longer work or grade 5 for functional accessories which work perfectly as new.

Trim and accessories appearance

Assessment rating of grade 1 for severe or distinct change in appearance, grade 3 for moderate change in appearance or grade 5 for no or negligible change in appearance.

Colour change: Prints & embroideries

Assessment shall be graded according to ISO 105-A02 under clause 7.9. Assessment ratings as follow (half grades allowed):

- Grade 1 – Very degraded colour according to grey scale
- Grade 2 – Gradient colour
- Grade 3 – Medium gradient colour

- Grade 4 – Slightly degraded colour
- Grade 5 – Colour intact as new, initial appearance

Colour change: Main fabric

Assessment shall be graded according to ISO 105-A02 under clause 7.9. Assessment ratings as follow (half grades allowed):

- Grade 1 – Very degraded colour according to grey scale
- Grade 2 – Gradient colour
- Grade 3 – Medium gradient colour
- Grade 4 – Slightly degraded colour
- Grade 5 – Colour intact as new, initial appearance

Colour change: Lining

Assessment shall be graded according to ISO 105-A02 under clause 7.9. Assessment ratings as follow (half grades allowed):

- Grade 1 – Very degraded colour according to grey scale
- Grade 2 – Gradient colour
- Grade 3 – Medium gradient colour
- Grade 4 – Slightly degraded colour
- Grade 5 – Colour intact as new, initial appearance

Footwear Test Conditions

ISO 24266: 2000 Method B (sport shoes only) Test Methods for Whole Shoe – Flexing Durability

Test method

- Flexing rate: (230 ± 10) cycles per minutes
- Flexing angle: 50° ± 1°
- Without cut on the outsole
- Flexion limit:
 - Max rigidity: At 30N bending force must be lower than 45° (ISO:)
 - Max thickness: 25 mm (combined outsole, midsole and insole)

ISO 17704: 2004 Footwear – Test Methods for Uppers, Linings and Insoles – Abrasion Resistance

Upper Abrasion

Conditions: Dry conditions

Samples shall be taken at 30% of the shoe length from the front. If the shoe is without protection then the test shall be of the thinnest material from which a 38 mm diameter sample can be obtained. If the shoe has protection then the sample shall be a 38 mm diameter sample from the protection area. Tests shall be run on 2 specimens. Before testing, remove all material overlaps to avoid high local pressure points on the material during the test. Test only the outer face of the upper. The material shall be considered to have a hole if there are broken threads in an area with a diameter of 2.5 mm.

Conditions: Dry conditions with abrasion paper

Samples shall be taken at 30% of the shoe length from the front. If the shoe is without protection then the test shall be of the thinnest material from which a 38 mm diameter sample can be obtained. If the shoe has protection then the sample

shall be a 38 mm diameter sample from the protection area. Tests shall be run on 2 specimens. Before testing, remove all material overlaps to avoid high local pressure points on the material during the test. Test only the outer face of the upper. Use P400 sandpaper with a pressure of 9 kPa. New sandpaper shall be used at the start of every test and shall be replaced every 300 cycles. The material shall be considered to have a hole if there are broken threads in an area with a diameter of 2.5 mm.

Lining Abrasion

Conditions: Wet conditions

Samples shall be taken from the heel or collar lining of the footwear. The sample shall be without any seams, superposition or component limits. If there is no lining, test the inner face of the upper material (both heel and front of shoe). Use wool for the abradant. A new wool abradant shall be used for every test and shall be replaced every 50,000 cycles. The material shall be considered to have a hole if there are broken threads in an area with a diameter of 2.5 mm.

ISO 20871: 2018 Footwear – Test Methods for Outsoles – Abrasion Resistance

Sample preparation

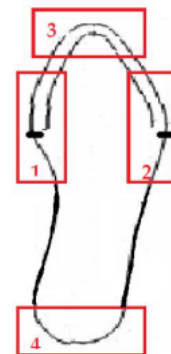
Sampling should be done on flat area of the sole if possible. If this is not possible, remove the patterns to have a flat test specimen. The sampling area shall be the main outsole material/component.

ISO 17708: 2018 Footwear – Test Methods for Whole Shoe – Upper Sole Adhesion

Samples shall be taken from the following 4 zones

1. Flexing medial
2. Flexing lateral
3. Forefoot
4. Heel

Zones 1, 2 and 4 will need samples 50 mm in length and 10 mm in width. Samples from Zone 3 will need to be 25 mm in length and 10 mm in width. Tests shall be run at 100 mm per minute. For each area the individual results will be averaged together and the lowest result will be used for evaluating the product.



ISO 17708: 2018 Footwear – Test Methods for Whole Shoe – Outsole-midsole Adhesion

This test is only applicable if the outsole is bonded to the midsole. If this test is necessary the follow the same instructions as those for Upper Sole Adhesion.

Part II: Subcategory and Segment Physical Durability Tables

Note

The durability tables listed in this annex do not apply to apparel products made up of 80% or more genuine leather and/or fur.

Subcategory 1: T-shirts

Segment: Woven, All uses

Please refer to Part I above for information on how to run the tests in the table below.

Table 5 - Subcategory 1: T-shirts, Segment: Woven, All uses

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 10%	$6,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 10%	$100 < x \leq 150$	$150 < x \leq 300$	$x > 300$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 10%	$6 < x \leq 8$	$8 < x \leq 12$	$x > 12$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Collar appearance: Curled or blistered aspect	No, 8%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Moderate (10 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	Yes, 10%	$4 < x \leq 6$	$2 < x \leq 4$	$x \leq 2$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 6 - Subcategory 1: T-shirts, Segment: Knit, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 12%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 12%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 8%	$8,000 < x \leq 10,000$	$10,000 < x \leq 20,000$	$x > 20,000$
	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 12%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 12%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 8%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 12%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance		

			Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 12%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 7 - Subcategory 1: T-shirts, Segment: Knit, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 11%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 7%	$8,000 < x \leq 10,000$	$10,000 < x \leq 20,000$	$x > 20,000$
	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 12%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ASTM D3939: Test method for snagging resistance of fabrics (Mace)	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 7%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 7%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 2: Shirts & Blouses

Segment: Woven, All uses

Please refer to Part I above for information on how to run the tests in the table below.

Table 8 - Subcategory 2: Shirts & Blouses, Segment: Woven, All uses

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 10%	$6,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 10%	$100 < x \leq 150$	$150 < x \leq 300$	$x > 300$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 10%	$6 < x \leq 8$	$8 < x \leq 12$	$x \leq 12$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Collar appearance: Curled or blistered aspect	No, 8%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Moderate (10 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	Yes, 10%	$4 < x \leq 6$	$2 < x \leq 4$	$x \leq 2$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	- Trims and accessories appearance		Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 9 - Subcategory 2: Shirts & Blouses, Segment: Knit, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077 : Determination of dimensional change after washing and drying (%)	Yes, 12%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3 : Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 12%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	EN ISO 12947-2 : Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 8%	$8,000 < x \leq 10,000$	$10,000 < x \leq 20,000$	$x > 20,000$
	ISO 13938-1 (or 2) : Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 12%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ISO 12945-1 : Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 12%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 8%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 12%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 12%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 10 - Subcategory 2: Shirts & Blouses, Segment: Knit, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 11%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 7%	$8,000 < x \leq 10,000$	$10,000 < x \leq 20,000$	$x > 20,000$
	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 11%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ASTM D3939: Test method for snagging resistance of fabrics (Mace)	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 8%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 7%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 11%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 3: Sweaters & midlayers

Segment: All techniques, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 11 - Subcategory 3: Sweaters & midlayers, Segment: All techniques, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077 : Determination of dimensional change after washing and drying (%)	Yes, 10%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3 : Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 10%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	ISO 13938-1 (or 2) : Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	No, 8%	$200 < x \leq 300$	$300 < x \leq 500$	$x > 500$
Fabric Aspect Damage	ISO 12945-1 : Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	Yes, 10%	$2 \leq x \leq 3$	$3 < x \leq 4$	$x > 4$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Pulled yarn	Yes, 10%	Absence of defect (15 pt): no pulled yarn Presence of defect (0 pt): pulled yarn		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Appearance of collar & edges: Looseness	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Moderate (10 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	Yes, 10%	$2 < x \leq 3$	$3 < x \leq 4$	$x > 4$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: All technicities, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 12 - Subcategory 3: Sweaters & midlayers, Segment: All technicities, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 9%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 9%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 9%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 500$
Fabric Aspect Damage	ASTM D3939: Test method for snagging resistance of fabrics (Mace)	No, 4%	$x = 3$	$3 < x < 4$	$x = 4$
	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	Yes, 9%	$2 \leq x \leq 3$	$3/4 \leq x \leq 4$	$x > 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 9%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Pulled yarn	Yes, 9%	Absence of defect (15 pt): no pulled yarn Presence of defect (0 pt): pulled yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Appearance of collar & edges: Looseness	No, 7%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Moderate (10 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	Yes, 9%	$2 < x \leq 3$	$3 < x \leq 4$	$x > 4$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 9%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 9%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 4: Jackets & Coats

Segment: Woven, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 13 - Subcategory 4: Jackets & Coats, Segment: Woven, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11 %	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 10%	$8,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 10%	$120 < x \leq 200$	$200 < x \leq 300$	$x > 300$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 10%	$6 < x \leq 10$	$10 < x \leq 15$	$x > 15$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Interlining & reinforcements	No, 3%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 3%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	Yes, 11%	$4 < x \leq 6$	$2 < x \leq 4$	$x \leq 2$
	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Lining	No, 3%	$4 < x \leq 6$	$2 < x \leq 4$	$x \leq 2$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 3%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Lining	No, 3%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Woven, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 14 - Subcategory 4: Jackets & Coats, Segment: Woven, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 11%	$20,000 < x \leq 30,000$	$30,000 < x \leq 40,000$	$x > 40,000$
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 11%	$150 < x \leq 250$	$250 < x \leq 400$	$x > 400$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 11%	$6 < x \leq 15$	$15 < x \leq 20$	$x > 20$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Interlining & reinforcements	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
			Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	x = 2/3	3 ≤ x ≤ 4	x ≥ 4/5
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	No, 4%	x = 4	2 < x < 4	x ≤ 2
	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Lining	No, 4%	x = 4	2 < x < 4	x ≤ 2
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	3/4 ≤ x ≤ 4	x ≥ 4/5
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	x = 3	3/4 ≤ x ≤ 4	x ≥ 4/5

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Lining	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 15 - Subcategory 4: Jackets & Coats, Segment: Knit, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 14%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 14%	$250 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 5%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 14%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Interlining & reinforcements	No, 5%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 5%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 14%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 5%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 5%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 14%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Lining	No, 5%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 16 - Subcategory 4: Jackets & Coats, Segment: Knit, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 13%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 13%	$250 < x \leq 300$	$300 < x \leq 400$	$x > 400$

Fabric Aspect Damage	ASTM D3939: Test method for snagging resistance of fabrics (Mace)	Yes, 13%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 12%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Interlining & reinforcements	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 12%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance Below Basic (0 pt): Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	Yes, 13%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$

	- Colour change: Main fabric				
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Lining	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 5: Pants & Shorts

Segment: Woven, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 17 - Subcategory 5: Pants & Shorts, Segment: Woven, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 9%	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ¹	No, 9%	$85 < x \leq 90$	$90 < x \leq 95$	$x > 95$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	No, 7%	$4 < x \leq 5\%$	$3 < x \leq 4\%$	$x \leq 3\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 9%	$8,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 9%	$120 < x \leq 200$	$200 < x \leq 300$	$x > 300$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 9%	$6 < x \leq 10$	$10 < x \leq 15$	$x > 15$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 9%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		

¹ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	Yes, 9%	$4 < x \leq 6$	$2 < x \leq 4$	$x \leq 2$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 9%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 9%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Woven, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 18 - Subcategory 5: Pants & Shorts, Segment: Woven, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ²	No, 10%	85 < x ≤ 90	90 < x ≤ 95	x > 95
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	No, 3%	4 < x ≤ 5%	3 < x ≤ 4%	x ≤ 3%
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 10%	20,000 < x ≤ 30,000	30,000 < x ≤ 40,000	x > 40,000
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 10%	150 < x ≤ 250	250 < x ≤ 400	x > 400
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 10%	6 < x ≤ 15	15 < x ≤ 20	x > 20
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 3%	x = 2/3	3 ≤ x ≤ 4	x ≥ 4/5
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	No, 8 %	4 < x ≤ 6	2 < x ≤ 4	x ≤ 2
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	No, 3%	Aspirational (15 pt): x = 5, No or negligible change in appearance		

² Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	- Trims and accessories appearance		Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 19 - Subcategory 5: Pants & Shorts, Segment: Knit, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077 : Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-1 : Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ³	No, 11%	$80 < x \leq 85$	$85 < x \leq 90$	$x > 90$
	ISO 16322-3 : Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	No, 7%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	ISO 13938-1 (or 2) : Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 11%	$250 < x \leq 300$	$300 < x \leq 400$	$x > 400$
	EN ISO 12947-2 : Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 11%	$8,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$

³ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Fabric Aspect Damage	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 20 - Subcategory 5: Pants & Shorts, Segment: Knit, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ⁴	No, 10%	$80 < x \leq 85$	$85 < x \leq 90$	$x > 90$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	No, 4%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 10%	$250 < x \leq 300$	$300 < x \leq 400$	$x > 400$
	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 10%	$20,000 < x \leq 30,000$	$30,000 < x \leq 40,000$	$x > 40,000$
Fabric Aspect Damage	ASTM D3939: Test method for snagging resistance of fabrics (Mace)	Yes, 10%	NA	$3 < x < 4/5$	$x \geq 4/5$
	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		

⁴ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 6: Dresses, Skirts & Jumpsuits

Segment: Woven, All uses

Please refer to Part I above for information on how to run the tests in the table below.

Table 21 - Subcategory 6: Dresses, Skirts & Jumpsuits, Segment: Woven, All uses

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$4 < x \leq 6\%$	$2 < x \leq 4\%$	$x \leq 2\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ⁵	No, 11%	$85 < x \leq 90$	$90 < x \leq 95$	$x > 95$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 7%	$6,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$

⁵ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	No, 7%	$100 < x \leq 150$	$150 < x \leq 300$	$x > 300$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	No, 3%	$6 < x \leq 8$	$8 < x \leq 12$	$x > 12$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 7%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Seam Aspect Damage	ISO 13936-2: Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (mm): Main fabric	Yes, 11%	$4 < x \leq 6$	$2 < x \leq 4$	$x \leq 2$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 7%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 22 - Subcategory 6: Dresses, Skirts & Jumpsuits, Segment: Knit, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 11%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ⁶	No, 11%	$85 < x \leq 90$	$90 < x \leq 95$	$x > 95$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	No, 7%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 7%	$x = 2/3$	$2/3 < x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Pulled yarn	No, 3%	Absence of defect (15 pt): no pulled yarn Presence of defect (0 pt): pulled yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 7%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	Yes, 11%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new		

⁶ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Accessories Aspect Damage	- Handling of functional accessories		Below Basic (0 pt): x= 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 7%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 23 - Subcategory 6: Dresses, Skirts & Jumpsuits, Segment: Knit, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	Yes, 10%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ⁷	No, 10%	$85 < x \leq 90$	$90 < x \leq 95$	$x > 95$

⁷ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Fabric Strength	ISO 13938-1 (or 2) : Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	No, 7%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ASTM D3939 : Test method for snagging resistance of fabrics (Mace)	No, 7%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 12945-1 : Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 7%	$x = 2/3$	$2/3 < x \leq 3/4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 9%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Pulled yarn	No, 3%	Absence of defect (15 pt): no pulled yarn Presence of defect (0 pt): pulled yarn		
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 7%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 7%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 7: Leggings, Stockings, Tights and Socks

Due to specific construction considerations in this subcategory the products will be segmented into “Leggings”, “Classic thick” technicity segment and “Sheer” technicity segment. Full definitions can be found in the **Definitions** section of this Annex.

Segment: Leggings, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 24 - Subcategory 7: Leggings, Stocking, Tights and Socks, Segment: Leggings, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ⁸	No, 11%	$80 < x \leq 85$	$85 < x \leq 90$	$x > 90$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	No, 7%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 12%	$250 < x \leq 300$	$300 < x \leq 400$	$x > 400$
	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 10%	$8,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$
Fabric Aspect Damage	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$

⁸ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Leggings, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 25 - Subcategory 7: Leggings, Stocking, Tights and Socks, Segment: Leggings, Non, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-1: Determination of the elasticity of fabrics - Part 1: Strip tests – Method A (min. recovery %) ⁹	No, 10%	$80 < x \leq 85$	$85 < x \leq 90$	$x > 90$
	ISO 16322-3: Determination of spirality after laundering - Part 3: Woven and knitted garments (%)	No, 3%	$6 < x \leq 8\%$	$4 < x \leq 6\%$	$x \leq 4\%$
Fabric Strength	ISO 13938-1 (or 2): Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 10%	$250 < x \leq 300$	$300 < x \leq 400$	$x > 400$
	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 10%	$20,000 < x \leq 30,000$	$30,000 < x \leq 40,000$	$x > 40,000$
Fabric Aspect Damage	ASTM D3939: Test method for snagging resistance of fabrics (Mace)	Yes, 10%	NA	$3 < x < 4/5$	$x \geq 4/5$
	ISO 12945-1: Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		

⁹ Operating conditions: Result to be evaluated after 30 minutes relaxation. 30N load for woven fabrics. Threshold specified as minimum recovery (%).

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Classic thick, Non-sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 26 - Subcategory 7: Leggings, Stockings, Tights and Socks, Segment: Classic thick, Non-sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Fabric Strength	NF EN 13770: Determination of the abrasion resistance of knitted footwear garments (number of cycles)	Yes, 25%	$400 < x \leq 600$	$600 < x \leq 800$	$x > 800$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	No, 17%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 25%	x = 2/3	$3 \leq x \leq 3/4$	$x \geq 4$

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 8%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 25%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Classic thick, Sport

Please refer to Part I above for information on how to run the tests in the table below.

Table 27 - Subcategory 7: Leggings, Stockings, Tights and Socks, Segment: Classic thick, Sport

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Fabric Strength	NF EN 13770: Determination of the abrasion resistance of knitted footwear garments (number of cycles)	Yes, 25%	$1,000 < x \leq 1,200$	$1,200 < x \leq 1,500$	$x > 1,500$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 25%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 17%	x = 3	x = 3/4	$x \geq 4$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 8%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		

Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 25%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
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Segment: Sheer, All uses

Please refer to Part I above for information on how to run the tests in the table below.

Table 28 - Subcategory 7: Leggings, Stockings, Tights and Socks, Segment: Sheer, All uses

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Fabric Aspect Damage	BS 8479 modified: Method to determine a fabric's propensity to snagging (snagpod)	No, 21%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 21%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	Yes, 21%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	No, 8%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x= 1, Functional accessories which work poorly or no longer work		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 8%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 21%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq 4/5$

Subcategory 8: Underwear

Note: The underwear subcategory covers both tops such as bras and bottoms such as briefs. The tables for this segment will be split into specific tables for tops and bottoms. Please be sure the correct table is used for the product being evaluated.

Segment: Woven, All uses – Tops

Please refer to Part I above for information on how to run the tests in the table below.

Table 29 - Subcategory 8: Underwear, Segment: Woven, All uses - Tops

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁰	Yes, 11%	$12 < x \leq 20\%$	$7 < x \leq 12\%$	$x \leq 7\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹¹	No, 4%	$8 < x \leq 10\%$	$5 < x \leq 8\%$	$x \leq 5\%$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Underwire aspect: Piercing	Yes, 11%	Absence of defect (15 pt): no piercing Presence of defect (0 pt): piercing		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 4%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	Yes, 11%	Absence of defect (15 pt): no delamination		

¹⁰ Shoulder straps measurement

¹¹ Measurement of the half side between brackets and between breasts

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	- Fabric appearance: Delamination		Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Shell appearance: Curled or blistered aspect	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Woven, All uses – Bottoms

Please refer to Part I above for information on how to run the tests in the table below.

Table 30 - Subcategory 8: Underwear, Segment: Woven, All uses - Bottoms

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 12%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹²	Yes, 12%	$15 < x \leq 25\%$	$7 < x \leq 15\%$	$x \leq 7\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 12%	$8,000 < x \leq 10,000$	$10,000 < x \leq 20,000$	$x > 20,000$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 12%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 4%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	Yes, 12%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 12%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	No, 4%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance		

¹² Half waist measurement

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	- Trims and accessories appearance		Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 12%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, All uses – Tops

Please refer to Part I above for information on how to run the tests in the table below.

Table 31 - Subcategory 8: Underwear, Segment: Knit, All uses - Tops

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077 : Determination of dimensional change after washing and drying (%)	Yes, 10%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3 : Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹³	Yes, 10%	$12 < x \leq 20\%$	$7 < x \leq 12\%$	$x \leq 7\%$
	ISO 20932-3 : Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁴	No, 6%	$8 < x \leq 10\%$	$5 < x \leq 8\%$	$x \leq 5\%$
Fabric Strength	ISO 13938-1 (or 2) : Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 10%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying	Yes, 10%	Absence of defect (15 pt): no hole and no broken yarn		

¹³ Shoulder straps measurement

¹⁴ Measurement of the half side between brackets and between breasts

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	- Product aspect: Holes or broken yarn		Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Underwire aspect: Piercing	Yes, 10%	Absence of defect (15 pt): no piercing Presence of defect (0 pt): piercing		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 3%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	Yes, 10%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Shell appearance: Curled or blistered aspect	No, 3%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 3%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq \frac{4}{5}$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 9%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 3%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
			Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Segment: Knit, All uses – Bottoms

Please refer to Part I above for information on how to run the tests in the table below.

Table 32 - Subcategory 8: Underwear, Segment: Knit, All uses - Bottoms

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077 : Determination of dimensional change after washing and drying (%)	Yes, 11%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3 : Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁵	Yes, 11%	$15 < x \leq 25\%$	$7 < x \leq 15\%$	$x \leq 7\%$
Fabric Strength	EN ISO 12947-2 : Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	No, 7%	$8,000 < x \leq 10,000$	$10,000 < x \leq 20,000$	$x > 20,000$
	ISO 13938-1 (or 2) : Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (Kpa)	Yes, 11%	$200 < x \leq 300$	$300 < x \leq 400$	$x > 400$
Fabric Aspect Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 11%	Absence of defect (15 pt): no hole and no broken yarn		

¹⁵ Half waist measurement

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
			Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 4%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	Yes, 11%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 11%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 11%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$

Subcategory 9: Swimwear

Note: The swimwear subcategory covers both tops and bottoms. The tables for this segment will be split into specific tables for tops and bottoms. Please be sure the correct table is used for the product being evaluated.

Segment: Woven, All uses – Tops

Please refer to Part I above for information on how to run the tests in the table below.

Table 33 - Subcategory 9, Swimwear, Segment: Woven, All uses - Tops

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 7%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁶	Yes, 7%	$15 < x \leq 25\%$	$7 < x \leq 15\%$	$x \leq 7\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁷	No, 3 %	$8 < x \leq 10\%$	$5 < x \leq 8\%$	$x \leq 5\%$
Fabric Strength	EN ISO 12947-2: Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 7%	$6,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 7%	$100 < x \leq 150$	$150 < x \leq 200$	$x > 200$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 7%	$6 < x \leq 8$	$8 < x \leq 10$	$x > 10$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 7%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying	Yes, 7%	Absence of defect (15 pt): no piercing Presence of defect (0 pt): piercing		

¹⁶ Shoulder straps measurement

¹⁷ Measurement of the half side between brackets and between breasts

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	- Underwire aspect: Piercing				
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 3%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	Yes, 7%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Shell appearance: Curled or blistered aspect	No, 2%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 2%	x = 3	$\frac{3}{4} \leq x \leq 4$	$x \geq \frac{4}{5}$
Seam Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Seam appearance: Smoothed, delaminated or puckered for main fabric	Yes, 7%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 7%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 2%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
			Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Colour Damage	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 2%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487 : Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 7%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E02 : Tests for colour fastness - Part E02: Colour fastness to sea water (Colour change)	No, 3%	$x = 2/3$	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E03 : Tests for colour fastness - Part E03: Colour fastness to chlorinated water (Colour change)	No, 3%	$x = 3$	$3 < x \leq 4$	$x \geq 4/5$
	ISO 105-B02 : Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	No, 3%	$x = 3$	$x = 3/4$	$x \geq 4$

Segment: Woven, All uses – Bottoms

Please refer to Part I above for information on how to run the tests in the table below.

Table 34 - Subcategory 9: Swimwear, Segment: Woven, All uses - Bottoms

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077 : Determination of dimensional change after washing and drying (%)	Yes, 8%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3 : Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁸	Yes, 8%	$15 < x \leq 25\%$	$7 < x \leq 15\%$	$x \leq 7\%$
Fabric Strength	EN ISO 12947-2 : Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (cycles)	2 of 3 needed, 8%	$6,000 < x \leq 15,000$	$15,000 < x \leq 25,000$	$x > 25,000$

¹⁸ Half waist measurement

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 13934-2: Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (N)	2 of 3 needed, 8%	$100 < x \leq 150$	$150 < x \leq 200$	$x > 200$
	ISO 13937-1: Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (N)	2 of 3 needed, 8%	$6 < x \leq 8$	$8 < x \leq 10$	$x > 10$
Fabric Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	Yes, 8%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 3%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	Yes, 8%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 3%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
Seam Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Seam appearance: Smoothed, delaminated or puckered for main fabric	Yes, 8%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 7%	Aspirational (15 pt): $x = 5$, Functional accessories work perfectly as new Below Basic (0 pt): $x = 1$, Functional accessories which work poorly or no longer work		

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 3%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 3%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 8%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E02: Tests for colour fastness - Part E02: Colour fastness to sea water (Colour change)	No, 3%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E03: Tests for colour fastness - Part E03: Colour fastness to chlorinated water (Colour change)	No, 3%	x = 3	$3 < x \leq 4$	$x \geq 4/5$
	ISO 105-B02: Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	No, 3%	x = 3	x = 3/4	$x \geq 4$

Segment: Knit, All uses – Tops

Please refer to Part I above for information on how to run the tests in the table below.

Table 35 - Subcategory 9: Swimwear, Segment: Knit, All uses - Tops

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 10%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ¹⁹	Yes, 10%	$15 < x \leq 25\%$	$7 < x \leq 15\%$	$x \leq 7\%$

¹⁹ Shoulder straps measurement

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ²⁰	No, 4%	$8 < x \leq 10\%$	$5 < x \leq 8\%$	$x \leq 5\%$
Fabric Aspect Damage	BS 8479 modified: Method to determine a fabric's propensity to snagging (snagpod)	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	No, 3%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Underwire aspect: Piercing	No, 4%	Absence of defect (15 pt): no piercing Presence of defect (0 pt): piercing		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 4%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	No, 4%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Shell appearance: Curled or blistered aspect	No, 3%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$

²⁰ Measurement of the half side between brackets and between breasts

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Seam Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Seam appearance: Smoothed, delaminated or puckered for main fabric	Yes, 10%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 10%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 10%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E02: Tests for colour fastness - Part E02: Colour fastness to sea water (Colour change)	No, 4%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E03: Tests for colour fastness - Part E03: Colour fastness to chlorinated water (Colour change)	No, 4%	x = 3	$3 < x \leq 4$	$x \geq 4/5$
	ISO 105-B02: Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	No, 4%	x = 3	x = 3/4	$x \geq 4$

Segment: Knit, All uses – Bottoms

Please refer to Part I above for information on how to run the tests in the table below.

Table 36 - Subcategory 9: Swimwear, Segment: Knit, All uses - Bottoms

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Product Deformation	ISO 6330/ISO 5077: Determination of dimensional change after washing and drying (%)	Yes, 12%	$5 < x \leq 7\%$	$3 < x \leq 5\%$	$x \leq 3\%$
	ISO 20932-3: Determination of the elasticity of fabrics - Part 3: Narrow fabrics(%) ²¹	Yes, 12%	$15 < x \leq 25\%$	$7 < x \leq 15\%$	$x \leq 7\%$
Fabric Aspect Damage	BS 8479 modified: Method to determine a fabric's propensity to snagging (snagpod)	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Holes or broken yarn	No, 4%	Absence of defect (15 pt): no hole and no broken yarn Presence of defect (0 pt): hole or broken yarn		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Product aspect: Broken elastane (goes out)	No, 4%	Absence of defect (15 pt): no defect Absence of defect (5 pt): elastane goes out but no broken Presence of defect (0 pt): broken elastane		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Fabric appearance: Delamination	No, 4%	Absence of defect (15 pt): no delamination Presence of defect (0 pt): delamination		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Pilling and fuzzing	No, 4%	$x = 3$	$3/4 \leq x \leq 4$	$x \geq 4/5$
Seam Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Seam appearance: Smoothed, delaminated or puckered for main fabric	Yes, 12%	Aspirational (15 pt): $x = 5$, No or negligible change in appearance Basic (5 pt): $x = 3$, Moderate change in appearance Below Basic (0 pt): $x = 1$, Severe or distinct change in appearance		

²¹ Half waist measurement

End of Life Category	Required Normative Test	Criticality, Weighting	Basic Level	Moderate Level	Aspirational Level
Accessories Aspect Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Handling of functional accessories	Yes, 12%	Aspirational (15 pt): x = 5, Functional accessories work perfectly as new Below Basic (0 pt): x = 1, Functional accessories which work poorly or no longer work		
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Trims and accessories appearance	No, 4%	Aspirational (15 pt): x = 5, No or negligible change in appearance Basic (5 pt): x = 3, Moderate change in appearance Below Basic (0 pt): x = 1, Severe or distinct change in appearance		
Colour Damage	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Prints & embroideries	No, 4%	x = 3	$3/4 \leq x \leq 4$	$x \geq 4/5$
	ISO 15487: Method for assessing appearance of apparel and other textile end products after domestic washing and drying - Colour change: Main fabric	Yes, 12%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E02: Tests for colour fastness - Part E02: Colour fastness to sea water (Colour change)	No, 4%	x = 2/3	$3 \leq x \leq 4$	$x \geq 4/5$
	ISO 105-E03: Tests for colour fastness - Part E03: Colour fastness to chlorinated water (Colour change)	No, 4%	x = 3	$3 < x \leq 4$	$x \geq 4/5$
	ISO 105-B02: Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	No, 4%	x = 3	x = 3/4	$x \geq 4$

Subcategory 10: Apparel Accessories

Due to the diversity of product types in this subcategory and the diversity of assessment methods for these products, all products within this subcategory shall be given a lifetime modifier of 1.0 and shall not be assessed for physical durability.

Subcategory 11: Open-toed Shoes

Segment: Non-sport, Infant

Please refer to Part I above for information on how to run the tests in the table below.

Table 37 - Subcategory 11: Open-toed Shoes, Segment: Non-sport, Infant

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Zipper failure	Zipper	EN 16732	25%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	25%	≥ 85 N	≥ 100 N	≥ 125 N
	Straps		25%	≥ 125 N	≥ 150 N	≥ 175 N
Bond Strength	Outsole Separation	ISO 17708	12.5%	≥ 1.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1 N/mm	≥ 2 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm
	Midsole Separation		12.5%	≥ 1.5 N/mm If ≥ 80% material failure ≥ 1 N/mm	≥ 2 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 2.5 N/mm If ≥ 80% material failure ≥ 2 N/mm

Segment: Non-sport, Children

Please refer to Part I above for information on how to run the tests in the table below.

Table 38 - Subcategory 11: Open-toed Shoes, Segment: Non-sport, Children

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	50,000 cycles	75,000 cycles	100,000 cycles

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ²²	Upper	ISO 17704	6%	12,800 cycles	18,000 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 3 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm	≥ 3.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2.5 N/mm
	Midsole Separation		17%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm

Segment: Non-sport, Adult multipurpose

Please refer to Part I above for information on how to run the tests in the table below.

Table 39 - Subcategory 11: Open-toed Shoes, Segment: Non-sport, Adult multipurpose

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	50,000 cycles	75,000 cycles	100,000 cycles

²² Dry condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ²³	Upper	ISO 17704	6%	6,400 cycles	18,000 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 350 mm ³ d < 0.9 then ≤ 250 mg	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 3 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm	≥ 3.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2.5 N/mm
	Midsole Separation		17%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm

Segment: Non-sport, Adult multipurpose with heel

Please refer to Part I above for information on how to run the tests in the table below.

Table 40 - Subcategory 11: Open-toed Shoes, Segment: Non-sport, Adult multipurpose with heel

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	9%	50,000 cycles	75,000 cycles	100,000 cycles

²³ Dry condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ²⁴	Upper	ISO 17704	3%	6,400 cycles	12,800 cycles	18,000 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	9%	d ≥ 0.9 then ≤ 350 mm ³ d < 0.9 then ≤ 250 mg	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg
Zipper failure	Zipper	EN 16732	9%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	9%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		9%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	13%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 3 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm	≥ 3.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2.5 N/mm
	Midsole Separation		13%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm
Broken Heel	Heel Resistance	ISO 19956	13%	NA	NA	14,000 cycles
	Heel Attachment	ISO 22650	13%	NA	NA	500 N

Segment: Non-sport, Indoor

Please refer to Part I above for information on how to run the tests in the table below.

Table 41 - Subcategory 11: Open-toed Shoes, Segment: Non-sport, Indoor

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion	ISO 24266 A	12%	20,000 cycles	30,000 cycles	40,000 cycles

²⁴ Dry condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
	area Outsole breakage					
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 475 mm ³ d < 0.9 then ≤ 375 mg Rubber with textile ≤ 640 mm ³	d ≥ 0.9 then ≤ 450 mm ³ d < 0.9 then ≤ 350 mg Rubber with textile ≤ 620 mm ³	d ≥ 0.9 then ≤ 400 mm ³ d < 0.9 then ≤ 300 mg Rubber with textile ≤ 600 mm ³
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	20%	≥ 2 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1 N/mm	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 3 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm
	Midsole Separation		20%	≥ 2 N/mm If ≥ 80% material failure ≥ 1 N/mm	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm

Segment: Sport, Outdoor

Please refer to Part I above for information on how to run the tests in the table below.

Table 42 - Subcategory 11: Open-toed Shoes, Segment: Sport, Outdoor

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	20%	50,000 cycles	75,000 cycles	150,000 cycles

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ²⁵	Upper	ISO 17704	13%	16 cycles	32 cycles	128 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	13%	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg	d ≥ 0.9 then ≤ 100 mm ³ d < 0.9 then ≤ 50 mg
Zipper failure	Zipper	EN 16732	7%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	7%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		7%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	20%	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm	≥ 4 N/mm in case of material breakage ≥ 3.5 N/mm
	Midsole Separation		13%	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm	≥ 4 N/mm in case of material breakage ≥ 3.5 N/mm

Segment: Sport, Water Sports

Please refer to Part I above for information on how to run the tests in the table below.

Table 43 - Subcategory 11: Open-toed Shoes, Segment: Sport, Water Sports

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	30%	50,000 cycles	75,000 cycles	100,000 cycles

²⁵ Dry condition with abrasion paper

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ²⁶	Upper	ISO 17704	10%	8 cycles	16 cycles	64 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	20%	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg
Accessories Attachment	Straps	ISO 24263	10%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	20%	≥ 2 N/mm in case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm
	Midsole Separation		10%	≥ 2 N/mm in case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm

Subcategory 12: Closed-toed Shoes

Segment: Non-sport, Infant

Please refer to Part I above for information on how to run the tests in the table below.

Table 44 - Subcategory 12: Closed-toed Shoes, Segment: Non-sport, Infant

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Zipper failure	Zipper	EN 16732	25%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	25%	≥ 85 N	≥ 100 N	≥ 125 N
	Straps		25%	≥ 125 N	≥ 150 N	≥ 175 N
Bond Strength	Outsole Separation	ISO 17708	12.5%	≥ 1.5 N/mm If failure ≥ 80% outsole/upper	≥ 2 N/mm If failure ≥ 80% outsole/upper	≥ 2.5 N/mm If failure ≥ 80% outsole/upper

²⁶ Dry condition with abrasion paper

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
				delamination ≥ 1 N/mm	delamination ≥ 1.5 N/mm	delamination ≥ 2 N/mm
	Midsole Separation		12.5%	≥ 1.5 N/mm If ≥ 80% material failure ≥ 1 N/mm	≥ 2 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 2.5 N/mm If ≥ 80% material failure ≥ 2 N/mm

Segment: Non-sport, Children

Please refer to Part I above for information on how to run the tests in the table below.

Table 45 - Subcategory 12: Closed-toed Shoes, Segment: Non-sport, Children

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ²⁷	Upper	ISO 17704	6%	12,800 cycles	18,000 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper	≥ 3 N/mm If failure ≥ 80% outsole/upper	≥ 3.5 N/mm If failure ≥ 80% outsole/upper

²⁷ Dry condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
				delamination ≥ 1.5 N/mm	delamination ≥ 2 N/mm	delamination ≥ 2.5 N/mm
	Midsole Separation		17%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm

Segment: Non-sport, Adult multipurpose

Please refer to Part I above for information on how to run the tests in the table below.

Table 46 - Subcategory 12: Closed-toed Shoes, Segment: Non-sport, Adult multipurpose

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ²⁸	Upper	ISO 17704	6%	6,400 cycles	18,000 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 350 mm ³ d < 0.9 then ≤ 250 mg	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper	≥ 3 N/mm If failure ≥ 80% outsole/upper	≥ 3.5 N/mm If failure ≥ 80% outsole/upper

²⁸ Dry condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
				delamination ≥ 1.5 N/mm	delamination ≥ 2 N/mm	delamination ≥ 2.5 N/mm
	Midsole Separation		17%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm

Segment: Non-sport, Adult multipurpose with heel

Please refer to Part I above for information on how to run the tests in the table below.

Table 47 - Subcategory 12: Closed-toed Shoes, Segment: Non-sport, Adult multipurpose with heel

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	9%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ²⁹	Upper	ISO 17704	3%	6,400 cycles	12,800 cycles	18,000 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	9%	d ≥ 0.9 then ≤ 350 mm ³ d < 0.9 then ≤ 250 mg	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg
Zipper failure	Zipper	EN 16732	9%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	9%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		9%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	13%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper	≥ 3 N/mm If failure ≥ 80% outsole/upper	≥ 3.5 N/mm If failure ≥ 80% outsole/upper

²⁹ Dry condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
				delamination ≥ 1.5 N/mm	delamination ≥ 2 N/mm	delamination ≥ 2.5 N/mm
	Midsole Separation		13%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm
Broken Heel	Heel Resistance	ISO 19956	13%	NA	NA	14,000 cycles
	Heel Attachment	ISO 22650	13%	NA	NA	500 N

Segment: Non-sport, Indoor

Please refer to Part I above for information on how to run the tests in the table below.

Table 48 - Subcategory 12: Closed-toed Shoes, Segment: Non-sport, Indoor

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	20,000 cycles	30,000 cycles	40,000 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 475 mm ³ d < 0.9 then ≤ 375 mg Rubber with textile ≤ 640 mm ³	d ≥ 0.9 then ≤ 450 mm ³ d < 0.9 then ≤ 350 mg Rubber with textile ≤ 620 mm ³	d ≥ 0.9 then ≤ 400 mm ³ d < 0.9 then ≤ 300 mg Rubber with textile ≤ 600 mm ³
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	20%	≥ 2 N/mm If failure ≥ 80% outsole/upper	≥ 2.5 N/mm If failure ≥ 80% outsole/upper	≥ 3 N/mm If failure ≥ 80% outsole/upper

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
				delamination ≥ 1 N/mm	delamination ≥ 1.5 N/mm	delamination ≥ 2 N/mm
	Midsole Separation		20%	≥ 2 N/mm If ≥ 80% material failure ≥ 1 N/mm	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm

Segment: Sport, Shoes with Cleats

Please refer to Part I above for information on how to run the tests in the table below.

Table 49 - Subcategory 12: Closed-toed Shoes, Segment: Sport, Shoes with Cleats

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 B	40%	25,000 cycles	40,000 cycles	100,000 cycles
Martindale Abrasion ³⁰	Upper	ISO 17704	10%	16 cycles	32 cycles	128 cycles
Martindale Abrasion ³¹	Lining	ISO 17704	10%	12,800 cycles	19,200 cycles	25,600 cycles
Bond Strength	Outsole Separation	ISO 17708	40%	≥ 2 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1 N/mm	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 3 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm

³⁰ Dry condition with abrasion paper

³¹ Wet condition

Segment: Sport, Linear

Please refer to Part I above for information on how to run the tests in the table below.

Table 50 - Subcategory 12: Closed-toed Shoes, Segment: Sport, Linear

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 B	30%	30,000 cycles	50,000 cycles	100,000 cycles
Martindale Abrasion ³²	Upper	ISO 17704	10%	8 cycles	16 cycles	64 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	30%	$d \geq 0.9$ then $\leq 200 \text{ mm}^3$ $d < 0.9$ then $\leq 150 \text{ mg}$	$d \geq 0.9$ then $\leq 150 \text{ mm}^3$ $d < 0.9$ then $\leq 100 \text{ mg}$	$d \geq 0.9$ then $\leq 100 \text{ mm}^3$ $d < 0.9$ then $\leq 50 \text{ mg}$
Bond Strength	Outsole Separation	ISO 17708	20%	$\geq 2 \text{ N/mm}$ in case of material breakage $\geq 1.5 \text{ N/mm}$	$\geq 2.5 \text{ N/mm}$ in case of material breakage $\geq 2 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ in case of material breakage $\geq 2.5 \text{ N/mm}$
	Midsole Separation		10%	$\geq 2 \text{ N/mm}$ in case of material breakage $\geq 1.5 \text{ N/mm}$	$\geq 2.5 \text{ N/mm}$ in case of material breakage $\geq 2 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ in case of material breakage $\geq 2.5 \text{ N/mm}$

Segment: Sport, Multidirectional

Please refer to Part I above for information on how to run the tests in the table below.

³² Dry condition with abrasion paper

Table 51 - Subcategory 12: Closed-toed Shoes, Segment: Sport, Multidirectional

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 B	19%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ³³	Upper	ISO 17704	13%	16 cycles	32 cycles	128 cycles
Martindale Abrasion ³⁴	Lining	ISO 17704	5%	12,800 cycles	19,200 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	13%	$d \geq 0.9$ then $\leq 200 \text{ mm}^3$ $d < 0.9$ then $\leq 150 \text{ mg}$	$d \geq 0.9$ then $\leq 150 \text{ mm}^3$ $d < 0.9$ then $\leq 100 \text{ mg}$	$d \geq 0.9$ then $\leq 100 \text{ mm}^3$ $d < 0.9$ then $\leq 50 \text{ mg}$
Zipper failure	Zipper	EN 16732	6%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	6%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
	Straps		6%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
Bond Strength	Outsole Separation	ISO 17708	19%	$\geq 2.5 \text{ N/mm}$ In case of material breakage $\geq 2 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ In case of material breakage $\geq 2.5 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ In case of material breakage $\geq 3 \text{ N/mm}$
	Midsole Separation		13%	$\geq 2.5 \text{ N/mm}$ In case of material breakage $\geq 2 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ In case of material breakage $\geq 2.5 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ In case of material breakage $\geq 3 \text{ N/mm}$

Segment: Sport, Slippers

Please refer to Part I above for information on how to run the tests in the table below. Note: Excludes climbing shoes

³³ Dry condition with abrasion paper

³⁴ Wet condition

Table 52 - Subcategory 12: Closed-toed Shoes, Segment: Sport, Slippers

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ³⁵	Upper	ISO 17704	50%	16 cycles	32 cycles	128 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	17%	d ≥ 0.9 then ≤ 450 mm ³ d < 0.9 then ≤ 350 mg	d ≥ 0.9 then ≤ 350 mm ³ d < 0.9 then ≤ 250 mg	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg
Bond Strength	Outsole Separation	ISO 17708	33%	≥ 1.5 N/mm In case of material breakage ≥ 1 N/mm	≥ 2 N/mm In case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm In case of material breakage ≥ 2 N/mm

Segment: Sport, Outdoor

Please refer to Part I above for information on how to run the tests in the table below.

Table 53 - Subcategory 12: Closed-toed Shoes, Segment: Sport, Outdoor

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 B	17%	30,000 cycles	50,000 cycles	100,000 cycles
Martindale Abrasion ³⁶	Upper	ISO 17704	12%	16 cycles	32 cycles	128 cycles
Martindale Abrasion ³⁷	Lining	ISO 17704	12%	12,800 cycles	19,200 cycles	25,600 cycles

³⁵ Dry condition with abrasion paper

³⁶ Dry condition with abrasion paper

³⁷ Wet condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg	d ≥ 0.9 then ≤ 100 mm ³ d < 0.9 then ≤ 50 mg
Zipper failure	Zipper	EN 16732	6%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	6%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		6%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm	≥ 4 N/mm in case of material breakage ≥ 3.5 N/mm
	Midsole Separation		12%	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm	≥ 4 N/mm in case of material breakage ≥ 3.5 N/mm

Segment: Sport, Water Sports

Please refer to Part I above for information on how to run the tests in the table below.

Table 54 - Subcategory 12: Closed-toed Shoes, Segment: Sport, Water Sports

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	34%	10,000 cycles	25,000 cycles	50,000 cycles
Martindale Abrasion ³⁸	Upper	ISO 17704	11%	8 cycles	16 cycles	64 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	22%	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg

³⁸ Dry condition with abrasion paper

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Bond Strength	Outsole Separation	ISO 17708	22%	≥ 2 N/mm in case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm
	Midsole Separation		11%	≥ 2 N/mm in case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm

Subcategory 13: Boots

Segment: Non-sport, Infant

Please refer to Part I above for information on how to run the tests in the table below.

Table 55 - Subcategory 13: Boots, Segment: Non-sport, Infant

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Zipper failure	Zipper	EN 16732	25%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	25%	≥ 85 N	≥ 100 N	≥ 125 N
	Straps		25%	≥ 125 N	≥ 150 N	≥ 175 N
Bond Strength	Outsole Separation	ISO 17708	12.5%	≥ 1.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1 N/mm	≥ 2 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm
	Midsole Separation		12.5%	≥ 1.5 N/mm If ≥ 80% material failure ≥ 1 N/mm	≥ 2 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 2.5 N/mm If ≥ 80% material failure ≥ 2 N/mm

Segment: Non-sport, Children

Please refer to Part I above for information on how to run the tests in the table below.

Table 56 - Subcategory 13: Boots, Segment: Non-sport, Children

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ³⁹	Upper	ISO 17704	6%	12,800 cycles	18,000 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	$d \geq 0.9$ then $\leq 250 \text{ mm}^3$ $d < 0.9$ then $\leq 200 \text{ mg}$	$d \geq 0.9$ then $\leq 200 \text{ mm}^3$ $d < 0.9$ then $\leq 150 \text{ mg}$	$d \geq 0.9$ then $\leq 150 \text{ mm}^3$ $d < 0.9$ then $\leq 100 \text{ mg}$
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
	Straps		12%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
Bond Strength	Outsole Separation	ISO 17708	17%	$\geq 2.5 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 1.5 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 2 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 2.5 \text{ N/mm}$
	Midsole Separation		17%	$\geq 2.5 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 1.5 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 2 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 2.5 \text{ N/mm}$

³⁹ Dry condition

Segment: Non-sport, Adult multipurpose

Please refer to Part I above for information on how to run the tests in the table below.

Table 57 - Subcategory 13: Boots, Segment: Non-sport, Adult multipurpose

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ⁴⁰	Upper	ISO 17704	6%	6,400 cycles	18,000 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 350 mm ³ d < 0.9 then ≤ 250 mg	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		12%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 1.5 N/mm	≥ 3 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2 N/mm	≥ 3.5 N/mm If failure ≥ 80% outsole/upper delamination ≥ 2.5 N/mm
	Midsole Separation		17%	≥ 2.5 N/mm If ≥ 80% material failure ≥ 1.5 N/mm	≥ 3 N/mm If ≥ 80% material failure ≥ 2 N/mm	≥ 3.5 N/mm If ≥ 80% material failure ≥ 2.5 N/mm

⁴⁰ Dry condition

Segment: Non-sport, Adult multipurpose with heel

Please refer to Part I above for information on how to run the tests in the table below.

Table 58 - Subcategory 13: Boots, Segment: Non-sport, Adult multipurpose with heel

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	9%	50,000 cycles	75,000 cycles	100,000 cycles
Martindale Abrasion ⁴¹	Upper	ISO 17704	3%	6,400 cycles	12,800 cycles	18,000 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	9%	$d \geq 0.9$ then $\leq 350 \text{ mm}^3$ $d < 0.9$ then $\leq 250 \text{ mg}$	$d \geq 0.9$ then $\leq 250 \text{ mm}^3$ $d < 0.9$ then $\leq 200 \text{ mg}$	$d \geq 0.9$ then $\leq 200 \text{ mm}^3$ $d < 0.9$ then $\leq 150 \text{ mg}$
Zipper failure	Zipper	EN 16732	9%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	9%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
	Straps		9%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
Bond Strength	Outsole Separation	ISO 17708	13%	$\geq 2.5 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 1.5 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 2 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 2.5 \text{ N/mm}$
	Midsole Separation		13%	$\geq 2.5 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 1.5 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 2 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 2.5 \text{ N/mm}$
Broken Heel	Heel Resistance	ISO 19956	13%	NA	NA	14,000 cycles
	Heel Attachment	ISO 22650	13%	NA	NA	500 N

⁴¹ Dry condition

Segment: Non-sport, Indoor

Please refer to Part I above for information on how to run the tests in the table below.

Table 59 - Subcategory 13: Boots, Segment: Non-sport, Indoor

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	12%	20,000 cycles	30,000 cycles	40,000 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	$d \geq 0.9$ then $\leq 475 \text{ mm}^3$ $d < 0.9$ then $\leq 375 \text{ mg}$ Rubber with textile $\leq 640 \text{ mm}^3$	$d \geq 0.9$ then $\leq 450 \text{ mm}^3$ $d < 0.9$ then $\leq 350 \text{ mg}$ Rubber with textile $\leq 620 \text{ mm}^3$	$d \geq 0.9$ then $\leq 400 \text{ mm}^3$ $d < 0.9$ then $\leq 300 \text{ mg}$ Rubber with textile $\leq 600 \text{ mm}^3$
Zipper failure	Zipper	EN 16732	12%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	12%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
	Straps		12%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
Bond Strength	Outsole Separation	ISO 17708	20%	$\geq 2 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 1 \text{ N/mm}$	$\geq 2.5 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 1.5 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ If failure $\geq 80\%$ outsole/upper delamination $\geq 2 \text{ N/mm}$
	Midsole Separation		20%	$\geq 2 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 1 \text{ N/mm}$	$\geq 2.5 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 1.5 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ If $\geq 80\%$ material failure $\geq 2 \text{ N/mm}$

Segment: Sport, Multidirectional

Please refer to Part I above for information on how to run the tests in the table below.

Table 60 - Subcategory 13: Boots, Segment: Sport, Multidirectional

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 B	19%	20,000 cycles	40,000 cycles	100,000 cycles
Martindale Abrasion ⁴²	Upper	ISO 17704	13%	16 cycles	32 cycles	128 cycles
Martindale Abrasion ⁴³	Lining	ISO 17704	5%	12,800 cycles	19,200 cycles	25,600 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	13%	$d \geq 0.9$ then $\leq 200 \text{ mm}^3$ $d < 0.9$ then $\leq 150 \text{ mg}$	$d \geq 0.9$ then $\leq 150 \text{ mm}^3$ $d < 0.9$ then $\leq 100 \text{ mg}$	$d \geq 0.9$ then $\leq 100 \text{ mm}^3$ $d < 0.9$ then $\leq 50 \text{ mg}$
Zipper failure	Zipper	EN 16732	6%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	6%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
	Straps		6%	$\geq 150 \text{ N}$	$\geq 200 \text{ N}$	$\geq 250 \text{ N}$
Bond Strength	Outsole Separation	ISO 17708	19%	$\geq 2.5 \text{ N/mm}$ In case of material breakage $\geq 2 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ In case of material breakage $\geq 2.5 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ In case of material breakage $\geq 3 \text{ N/mm}$
	Midsole Separation		13%	$\geq 2.5 \text{ N/mm}$ In case of material breakage $\geq 2 \text{ N/mm}$	$\geq 3 \text{ N/mm}$ In case of material breakage $\geq 2.5 \text{ N/mm}$	$\geq 3.5 \text{ N/mm}$ In case of material breakage $\geq 3 \text{ N/mm}$

Segment: Sport, Slippers

Please refer to Part I above for information on how to run the tests in the table below. Note: Excludes climbing shoes

⁴² Dry condition with abrasion paper

⁴³ Wet condition

Table 61 - Subcategory 13: Boots, Segment: Sport, Slippers

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Martindale Abrasion ⁴⁴	Upper	ISO 17704	50%	4 cycles	8 cycles	32 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	17%	$d \geq 0.9$ then $\leq 450 \text{ mm}^3$ $d < 0.9$ then $\leq 350 \text{ mg}$	$d \geq 0.9$ then $\leq 350 \text{ mm}^3$ $d < 0.9$ then $\leq 250 \text{ mg}$	$d \geq 0.9$ then $\leq 250 \text{ mm}^3$ $d < 0.9$ then $\leq 200 \text{ mg}$
Bond Strength	Outsole Separation	ISO 17708	33%	$\geq 1.5 \text{ N/mm}$ In case of material breakage $\geq 1 \text{ N/mm}$	$\geq 2 \text{ N/mm}$ In case of material breakage $\geq 1.5 \text{ N/mm}$	$\geq 2.5 \text{ N/mm}$ In case of material breakage $\geq 2 \text{ N/mm}$

Segment: Sport, Outdoor

Please refer to Part I above for information on how to run the tests in the table below.

Table 62 - Subcategory 13: Boots, Segment: Sport, Outdoor

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 B	17%	30,000 cycles	50,000 cycles	100,000 cycles
Martindale Abrasion ⁴⁵	Upper	ISO 17704	12%	16 cycles	32 cycles	128 cycles
Martindale Abrasion ⁴⁶	Lining	ISO 17704	12%	12,800 cycles	19,200 cycles	25,600 cycles

⁴⁴ Dry condition with abrasion paper

⁴⁵ Dry condition with abrasion paper

⁴⁶ Wet condition

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Outsole Abrasion	Tread loss	ISO 20871:2018	12%	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg	d ≥ 0.9 then ≤ 100 mm ³ d < 0.9 then ≤ 50 mg
Zipper failure	Zipper	EN 16732	6%	500 cycles	750 cycles	1,000 cycles
Accessories Attachment	Buckle	ISO 24263	6%	≥ 150 N	≥ 200 N	≥ 250 N
	Straps		6%	≥ 150 N	≥ 200 N	≥ 250 N
Bond Strength	Outsole Separation	ISO 17708	17%	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm	≥ 4 N/mm in case of material breakage ≥ 3.5 N/mm
	Midsole Separation		12%	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm	≥ 4 N/mm in case of material breakage ≥ 3.5 N/mm

Segment: Sport, Water Sports

Please refer to Part I above for information on how to run the tests in the table below.

Table 63 - Subcategory 13: Boots, Segment: Sport, Water Sports

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Whole Shoe Flexion	Outsole/upper unbonding Breakage of the upper in flexion area Outsole breakage	ISO 24266 A	34%	10,000 cycles	25,000 cycles	50,000 cycles
Martindale Abrasion ⁴⁷	Upper	ISO 17704	11%	8 cycles	16 cycles	64 cycles
Outsole Abrasion	Tread loss	ISO 20871:2018	22%	d ≥ 0.9 then ≤ 250 mm ³ d < 0.9 then ≤ 200 mg	d ≥ 0.9 then ≤ 200 mm ³ d < 0.9 then ≤ 150 mg	d ≥ 0.9 then ≤ 150 mm ³ d < 0.9 then ≤ 100 mg

⁴⁷ Dry condition with abrasion paper

Test	Testing Area	Test Protocol	Weighting	Basic Level	Moderate Level	Aspirational Level
Bond Strength	Outsole Separation	ISO 17708	22%	≥ 2 N/mm in case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm
	Midsole Separation		11%	≥ 2 N/mm in case of material breakage ≥ 1.5 N/mm	≥ 2.5 N/mm in case of material breakage ≥ 2 N/mm	≥ 3 N/mm in case of material breakage ≥ 2.5 N/mm

Part III: Functionality Tests

Functionality tests are only to be run on products for which the relevant functionality is claimed as an attribute the product has.

Apparel: Insulation

Test: ISO 11092 R_{CT}

Conditions: Test to be run as stated in the ISO method. Testing will occur after 5 wash cycles⁴⁸ for subcategory 4 and after 20 washes for all other subcategories. All segments will have the same thresholds. For products with Line/Flat Dry: drying will be done after 5 washes for subcategory 4, and after 5 washes and the final wash for all other subcategories. For products with Tumble Dry: drying will be done after each of the 5 washes for subcategory 4, and after each of the first 5 washes and after washes 10, 15 and 20 for all other subcategories.

Weighting: 10%

Table 64 - Apparel Insulation Functionality Test Thresholds

Basic Threshold	Intermediate Threshold	Aspirational Threshold
$0.010 \leq x < 0.60$	$0.60 \leq x < 0.120$	$x \geq 0.120$

Apparel: Water Repellency

Bundesman Method

Test: ISO 9865:1991

This is the preferred test for Water Repellency. If this test cannot be conducted please use the Spray test instead.

Conditions: Test to be run as stated in the ISO method. Test to be performed before wash. Grading to be done after 30 minutes. All segments will have the same thresholds.

Weighting: 10%

Table 65 - Apparel Water Repellency Functionality Test Thresholds (Bundesman)

Basic Threshold	Intermediate Threshold	Aspirational Threshold
$x \leq 2$	$2 < x < 3.5$	$x \geq 3.5$

Spray Test Method

Test: ISO 4920

This test may be run if the Bundesman test is not available or viable for a given product.

Conditions: Test to be run as stated in the ISO method with water temperature of 20 °C. Samples assessed after 5 wash cycles. For products with Line/Flat Dry: dry after the final wash. For products with Tumble Dry: dry after each wash. . All segments will have the same thresholds.

Weighting: 10%

⁴⁸ The wash cycle for these products shall be conducted according to the care cycle instructions in the first section of this annex (Part I: Physical Durability Test Conditions).

Table 66 - Apparel Water Repellency Functionality Test Thresholds (Spray Test)

Basic Threshold	Intermediate Threshold	Aspirational Threshold
Grade 3	Grade 3/4	Grade 4

Apparel: Water Proofness

Test: ISO 811

Conditions: Water pressure 60 cmH₂O/min. Water temperature 20° C. Samples evaluated after 5 wash cycles. For products with Line/Flat Dry: dry after the final wash. For products with Tumble Dry: dry after each wash. All segments will have the same thresholds. Testing shall occur both on the main fabrics as well as on the seams.

Weighting: 10%

Table 67 - Apparel Water Proofness Functionality Test Thresholds

Basic Threshold	Intermediate Threshold	Aspirational Threshold
5,000 mm	10,000 mm	15,000 mm

Footwear: Waterproofness

Test: ISO 20344-5.15.2

Conditions:

Weighting: 10%

Table 68 - Footwear Waterproofness Functionality Test Thresholds, by Segment

Segment 1 Use Case	Segment 2 Additional	Basic Threshold	Intermediate Threshold	Aspirational Threshold
Non-Sport	All segments	Total area of water penetration $\leq 3 \text{ cm}^2$ after 5,000 cycles	Total area of water penetration $\leq 3 \text{ cm}^2$ after 10,000 cycles	Total area of water penetration $\leq 3 \text{ cm}^2$ after 15,000 cycles
Sport	Footwear for Linear Sports	No water penetration after 10,000 cycles	No water penetration after 20,000 cycles	No water penetration after 50,000 cycles
Sport	Footwear for Multidirectional Sports	No water penetration after 10,000 cycles	No water penetration after 20,000 cycles	No water penetration after 50,000 cycles
Sport	Footwear for Outdoor Sport	No water penetration after 15,000 cycles	No water penetration after 50,000 cycles	No water penetration after 100,000 cycles

Part IV: Testing Equivalence; A protocol for Acceptance of alternative test results.

Introduction

The PEFCRs contain an extensive array of tests designed to predict the impact of a product's physical durability on its potential Duration of Service lifetime. Being an EU derived system, the tests require the use of EN or ISO standard test methods to be employed. It is however appreciated that most manufacturers of EU destined products are based outside of the EU and are supplying products globally, to brands using other test methods and standards. Product testing is a costly, both economically and environmentally, undertaking so duplication to meet the needs of different brands should be avoided wherever possible. Many test methods are similar, either being done on the same equipment or measuring the same parameters under slightly different conditions. If the outcomes of the different test methods are measuring the same parameter than it should be feasible to establish some correlation or conversion between them via an agreed set of protocols. These protocols will differ according to whether the results are parametric or non-parametric.

Rules:

1. If an ISO/EN test has been used but under different conditions the impact of those conditions on the test result should be identified
2. The non-ISO or non-EN test method should be an internationally recognised test method such as AATCC, ASTM, JSI etc. or an internal method validated by a third party (ISO 17025 accredited) laboratory.
3. The calibration testing has been carried out by an ISO 17025 accredited testing laboratory.
4. The validity of the method of calibration be verified by an independent third party such as a national accreditation body, see <https://european-accreditation.org/ea-members/directory-of-ea-members-and-mla-signatories>.

Calibration methods

For existing norms, such as AATCC, ASTM, etc, to create an acceptable calibration curve, a wide range of products needs to be tested. The range should cover:

- At least three falling below the basic level, (these product/fabrics can be from any company/source)
- At least three falling between basic and aspirational.
- At least three greater than aspirational

This would yield 18 test results or nine data points, but this should be considered an absolute minimum, 20+ data points (40+ test results) would be ideal.

Parametric (results form a continuous numerical range) Test Data

An example of a parametric calibration measuring differences between the ISO test and the alternative is shown in Fig 1

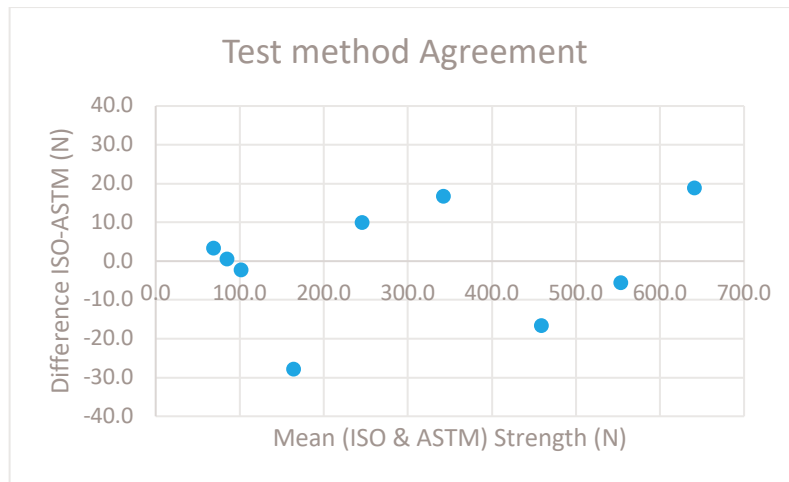


Figure 1 - Agreement between ASTM D5035-11 and ISO 13934-1

A simple correlation coefficient is not recommended because a high degree of correlation is almost guaranteed but there is also a potential for bias. An alternative approach (*Reference: Bland JM, Altman DG. (1992) Comparing methods of clinical measurement. Current Contents, CM20(40) Oct 5, 8.*) is suggested. The quality of the conversion between two tests eg ASTM and ISO will depend on the bias and the variability of the data. The example (fictitious tensile strength data) in Fig 1 shows an average difference from the mean of the two test results (bias) of -0.3N (+/-4.2) and its 95% confidence limits of agreement are from -31N to +30N (Limits of agreement = mean observed difference $\pm 1.96 \times$ standard deviation of observed differences) The bias can be added, or subtracted, but the suggested limit of agreement (upper - lower limit) for the variability is that it should be no greater than the difference between any two levels of performance (Basic v Moderate or Moderate v Aspirational). If the variability of the data increases with the magnitude of test result, then differences should be expressed as percentages of the ISO test result.

Non-parametric Test data

For test methods that generate a grade, the statistics are non-parametric and will need to be treated differently. An example below shows two fictitious sets of test grades for pilling performance (16 samples of fabric).

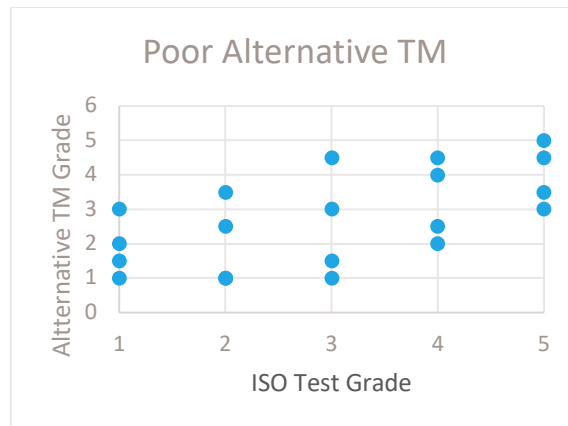


Figure 2 - Poor Alternative Test Method Example

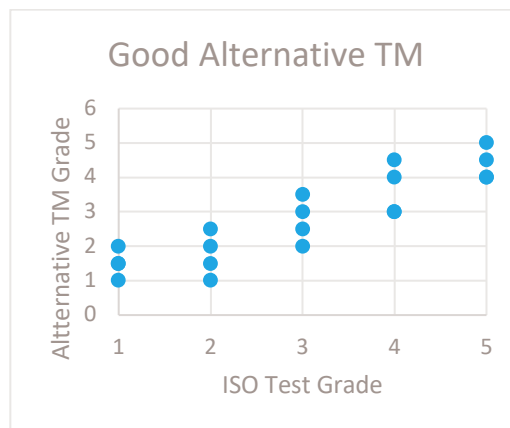


Figure 3 - Good Alternative Test Method Example

A suggested approach is that the grades from ISO tests and the grades from the alternative test are presented as a contingency table of the frequency of agreements (A_f) so that Cohen's Kappa can be calculated.

Where Cohen's Kappa = Proportion Observed-Proportion by chance/1-Proportion by chance. To take into account the influence of large differences between grades a Cohen's Weighted Kappa is used – see figures in brackets in the below table for weighting.

The below table considers full grades but could easily work with half grade data points.

Table 69 - Proposed Assessment Framework for Graded Test Comparison

		Alternative Test					Totals
		Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
ISO Test	Grade 1	A_f [1.0]	A_f [0.94]	A_f [0.75]	A_f [0.43]	A_f [0]	
	Grade 2	A_f [0.94]	A_f [1.0]				
	Grade 3	A_f [0.75]		A_f [1.0]			
	Grade 4	A_f [0.43]			A_f [1.0]		
	Grade 5	A_f [0]				A_f [1.0]	
Total		Σ					ΣA_f

The main diagonal cells from top left to bottom right represent frequency of agreement (A_f) and the off-diagonal cells represent disagreement. Figures in brackets represent the weighting to be applied.

If the lower confidence interval for the weighted kappa is above 0.6 then the agreement can be considered good (*Reference Basu S, Basu A (1995) Comparison of several goodness-of-fit tests for the kappa statistic based on exact power and coverage probability. Statistics in Medicine 14: 347-356*).

In the above examples the Poor Alternative TM yields a Cohen's weighted Kappa of -0.39 ± 0.23 whereas the Good Alternative TM yields a weighted Kappa of 0.9 ± 0.08 .

Summary

The objective of this working group has been to design a protocol to enable data from an alternative test method to be accepted. No attempt has been made to establish different thresholds.

Protocols for test methods yielding parametric and non-parametric data have been identified along with suggested limits; to enable decisions to be made regarding the suitability of an alternative test method.

The onus is on the manufacturer, or brand, to supply the necessary evidence to enable conversion to ISO test data. If this is not possible then the ISO /EN test will have to be carried out.

To avoid duplication of effort it is recommended that whenever a new method is approved it be listed, along with its bias and limits of agreement, within an appendix or on a PEFCR related website.

Part V: Calculation examples

Introduction

This section provides concrete examples of how to apply the testing protocol described earlier in this document to a fictional apparel and footwear product, the determination of the test score based on Table 7 in the PEFCR and the test results, as well as the calculation of the IDPS and the IDM based on Equations 4 and 5 in Section 3.3.3 in the PEFCR.

Example calculation for Apparel

An example of a t-shirt “Woven, All uses” (see Table 5) is provided below:

Table 70 - Intrinsic durability calculation - standard example

Test	Test result	Test score	Weighting	Total
Product deformation	moderate	10	10	$10 * 10 = 100$
Fabric strength test 1	moderate	10	10	$10 * 10 = 100$
Fabric strength test 2	basic	5	10	$5 * 10 = 50$
Fabric strength test 3	basic	5	10	$5 * 10 = 50$
Fabric aspect damage test 1	moderate	10	8	$10 * 8 = 80$
Fabric aspect damage test 2	basic	5	10	$5 * 10 = 50$
Fabric aspect damage test 3	moderate	10	4	$10 * 4 = 40$
Seam aspect damage	aspirational	15	10	$15 * 10 = 150$
Accessories aspect damage test 1	basic	5	10	$5 * 10 = 50$
Accessories aspect damage test 2	moderate	10	4	$10 * 4 = 40$
Colour damage test 1	moderate	10	4	$10 * 4 = 40$
Colour damage test 2	aspirational	15	10	$15 * 10 = 150$

To obtain the test score from a test result, an example is provided for the product deformation of a woven t-shirt (first line in Table 70):

- The woven t-shirt reaches a deformation of 3%, reaching the moderate level and obtaining 10 points
- The weighting of this test being 10, the weighted individual test score obtained is $10 * 10 = 100$

IDPS = $(100+100+50+50+80+50+40+150+50+40+40+150)/(10+10+10+10+8+10+4+10+10+4+4+10) =$
9.000 pts

IDM = $0.514 + (0.0624 \times 9.000) = 1.076$

In the case of **omitted individual tests**, the weighting of that test shall not be included in the total weighting for the product. For example, for a t-shirt with no accessories:

Table 71 - Intrinsic durability calculation - omitted test example (apparel)

Test	Test result	Test score	Weighting	Total
Product deformation	moderate	10	10	10 * 10 = 100
Fabric strength test 1	moderate	10	10	10 * 10 = 100
Fabric strength test 2	basic	5	10	5 * 10 = 50
Fabric strength test 3	basic	5	10	5 * 10 = 50
Fabric aspect damage test 1	moderate	10	8	10 * 8 = 80
Fabric aspect damage test 2	basic	5	10	5 * 10 = 50
Fabric aspect damage test 3	moderate	10	4	10 * 4 = 40
Seam aspect damage	aspirational	15	10	15 * 10 = 150
Accessories aspect damage test 1	not applicable			
Accessories aspect damage test 2	not applicable			
Colour damage test 1	moderate	10	4	10 * 4 = 40
Colour damage test 2	aspirational	15	10	15 * 10 = 150

IDPS = (100+100+50+50+80+50+40+150+40+150)/(10+10+10+10+8+10+4+10+4+10) = 9.419 pts

IDM = 0.514 + (0.0624 x 9.419) = 1.102

Finally, the three situations below illustrate the criticality concept on a t-shirt.

Situation 1 – a non-critical test is below the basic level:

Table 72 - Intrinsic durability calculation - non-critical test failure example (apparel)

Test	Test result	Test score	Weighting	total
Product deformation	moderate	10	10	10 * 10 = 100
Fabric strength test 1	moderate	10	10	10 * 10 = 100
Fabric strength test 2	basic	5	10	5 * 10 = 50
Fabric strength test 3	basic	5	10	5 * 10 = 50
Fabric aspect damage test 1 (non-critical)	below basic	0	8	0 * 8 = 0
Fabric aspect damage test 2 -> no change due to criticality of fabric aspect damage test 1	basic	5	10	5 * 10 = 50
Fabric aspect damage test 3 -> no change due to criticality of fabric aspect damage test 1	moderate	10	4	10 * 4 = 40
Seam aspect damage	aspirational	15	10	15 * 10 = 150
Accessories aspect damage test 1	basic	5	10	5 * 10 = 50
Accessories aspect damage test 2	moderate	10	4	10 * 4 = 40
Colour damage test 1	moderate	10	4	10 * 4 = 40
Colour damage test 2	aspirational	15	10	15 * 10 = 150

IDPS = (100+100+50+50+0+50+40+150+50+40+40+150) / (10+10+10+10+8+10+4+10+10+4+4+10) = 8.200 pts

IDM = 0.514 + (0.0624 x 8.200) = 1.026

Situation 2 – a critical test is below the basic level:

Table 73 - Intrinsic durability calculation - critical test failure example (apparel)

Test	Test result	Test score	Weighting	total
Product deformation	moderate	10	10	10 * 10 = 100
Fabric strength test 1	moderate	10	10	10 * 10 = 100
Fabric strength test 2	basic	5	10	5 * 10 = 50
Fabric strength test 3	basic	5	10	5 * 10 = 50
Fabric aspect damage test 1	moderate	10	8	0 due to criticality of fabric aspect damage test 2
Fabric aspect damage test 2 (critical)	below basic	0	10	0 * 10 = 0
Fabric aspect damage test 3	moderate	10	4	0 due to criticality of fabric aspect damage test 2
Seam aspect damage	aspirational	15	10	15 * 10 = 150
Accessories aspect damage test 1	basic	5	10	5 * 10 = 50
Accessories aspect damage test 2	moderate	10	4	10 * 4 = 40
Colour damage test 1	moderate	10	4	10 * 4 = 40
Colour damage test 2	aspirational	15	10	15 * 10 = 150

IDPS= (100+100+50+50+0+0+0+150+50+40+40+150) / (10+10+10+10+8+10+4+10+10+4+4+10) = **7.300 pts**

IDM = 0.514 + (0.0624 x 7.300) = **0.970**

Situation 3 – a “2 out of 3” critical test is failed:

Table 74 - Intrinsic durability calculation - "2 out of 3" critical test failure example (apparel)

Test	Test result	Test score	Weighting	total
Product deformation	moderate	10	10	10 * 10 = 100
Fabric strength test 1	moderate	10	10	0 due to criticality of fabric strength tests 2 and 3 combined
Fabric strength test 2	below basic	0	10	0 * 10 = 0
Fabric strength test 3	below basic	0	10	0 * 10 = 0
Fabric aspect damage test 1	moderate	10	8	10 * 8 = 80
Fabric aspect damage test 2	basic	5	10	5 * 10 = 50
Fabric aspect damage test 3	moderate	10	4	10 * 4 = 40
Seam aspect damage	aspirational	15	10	15 * 10 = 150
Accessories aspect damage test 1	basic	5	10	5 * 10 = 50
Accessories aspect damage test 2	moderate	10	4	10 * 4 = 40
Colour damage test 1	moderate	10	4	10 * 4 = 40
Colour damage test 2	aspirational	15	10	15 * 10 = 150

IDPS = 100+0+0+0+80+50+40+150+50+40+40+150)/(10+10+10+10+8+10+4+10+10+4+4+10) = **7.000 pts**

IDM = 0.514 + (0.0624 x 7.000) = **0.951**

Example calculation for Footwear

An example of a shoe, “non-sport, adult multi-purpose” (see Table 46) is provided in Table 75. The functionality test on waterproofness is added as it is a relevant functionality claimed by the fictional product.

Table 75 - Intrinsic durability calculation – standard example (Footwear)

Test	Test result	Test score	Weighting	Total
Whole shoe Flexion	moderate	10	12	10 * 12 = 120
Martindale Abrasion	moderate	10	6	10 * 6 = 60
Outsole Abrasion	moderate	10	12	10 * 12 = 120
Zipper failure	aspirational	15	12	15 * 12 = 180
Accessories Attachment test 1	basic	not applicable		
Accessories Attachment test 2	basic	5	12	5 * 12 = 60
Bond Strength test 1	moderate	10	17	10 * 17 = 170
Bond Strength test 2	aspirational	15	17	15 * 17 = 255
Functionality - Waterproofness	Intermediate	10	10	10 * 10 = 100

$$\text{IDPS} = (120+60+120+180+60+170+255+100)/(12+6+12+12+12+17+17+10)$$

$$= 10.867 \text{ pts}$$

$$\text{IDM} = 0.514 + (0.0624 \times 10.294) = 1.192$$