Leap by Beyond Leather

Department: R&D
TDS ID: 0006
Revision: 22/05/2026
Sign off: R&D

# Technical Data Sheet

| Property | Standard | Leap original | | Leap plus | |
|---|---|---|---|---|---|
| | | **Long** | **Cross** | **Long** | **Cross** |
| Tensile strength<br>Max. elongation | ISO 3376:2020 | 12 MPa<br>7.6% | 6.8 MPa<br>20% | 18 MPa<br>8.5% | 9.1 MPa<br>15.2% |
| Single edge tear strength | ISO 3377-1:2011 | 10 N +/- 1 N | 8.2 N +/- 1 N | 25 N +/- 2 N | 20 N +/- 2 N |
| Double edge tear strength | ISO 3377-2:2016 | 18 N | 23.4 N | 30.6 N | 39.6 N |
| Distension and strength (Ball burst method) | ISO 3379:2015 | Average burst extension 8.3 mm<br>Av. burst force 161 N<br>Time to break 56 s | | Average burst extension 11.1 mm<br>Av. burst force 226 N<br>Time to break 66s | |
| Dimensional change (shrinkage) of leathers caused by ageing | ISO 17130:2021 (6E: 168 h ± 2 h at 90 °C ± 2 °C) | -0.80% | -0.80% | -1.10% | -1.10% |
| Adhesion of finish | ISO 11644:2022 | > 17 N/10mm (dry)<br>> 12 N/10mm (wet) | | | |
| Flex resistance | ISO 5402-1:2011 | Dry:<br>No damage at 50.000 flexes<br><br>Wet:<br>No damage at 50.000 flexes | | Dry:<br>No damage at 40.000 flexes<br><br>Wet:<br>No damage at 40.000 flexes | |
| Abrasion resistance (Martindale method) | ISO 12947-2:2016 | Used mass (795±7) g<br>Used pressure 12 kPa<br>Number of cycles: >100000<br>Remark: A color loss of 4 in grey scale is observed | | | |
| Colour fastness to rubbing (VESLIC rub test) - dry, wet and sweat | ISO 11640:2018 | 100 cycles (dry):<br>Change in color 4-5<br>Staining 5<br><br>50 cycles (wet):<br>Change in color 4-5<br>Staining 4-5<br><br>50 cycles (sweat): | | | |

Leap by Beyond Leather

Department: R&D
TDS ID: 0006
Revision: 22/05/2026
Sign off: R&D

| Property | Standard | Leap original | | Leap plus | |
|---|---|---|---|---|---|
| | | Long | Cross | Long | Cross |
| | | Change in color 4-5<br>Staining 4 | | | |
| Colour fastness to water spotting | ISO 15700:2008 | Penetration time: >30 min<br>Change of color after 16h (no manual treatment): No damage<br>Physical effects after 30 min: No damage | | | |
| Colour fastness to light (Part B02: Colour fastness to artificial light: Xenon arc fading lamp test) | ISO 105-B02:2014 Method 3 (grade 6) | 6 (Blue scale)<br>Radiation: (42±2) W/m2 (300-400 nm)<br>Equipment used: Q-SUN XE-3 | | | |
| Colour fastness to perspiration | ISO 105-E04:2013 | Adjacent multifibre fabric used: DW<br>Change in Colour (acid) 4-5<br>Staining on Diacetate (acid) 4<br>Staining on Cotton (acid) 3<br>Staining on Polyamide (acid) 3<br>Staining on Polyester (acid) 4-5<br>Staining on Acrylic (acid) 4-5<br>Staining on Wool (acid) 4<br>Change in Colour (basic) 4-5<br>Staining on Diacetate (basic) 4<br>Staining on Cotton (basic) 3<br>Staining on Polyamide (basic) 3<br>Staining on Polyester (basic) 4-5<br>Staining on Acrylic (basic) 4<br>Staining on Wool (basic) 4 | | | |
| Color fastness for accelerated ageing | ISO 17228:2015-6 (6E: 168 h ± 2 h at 90 °C ± 2 °C Extended ageing of automotive leather (7d 90C) | Change in colour according to greyscale ISO 105-A02: no changes | | | |
| Tensile strength<br>Max. elongation | ISO 1421:2016 | | | 911 N<br>10% | 304 N<br>15% |
| Determination of tear force of trouser-shaped test specimens | ISO 13937-2:2000 | | | Warp:<br>25 N +/- 2 N | Weft:<br>20 N +/- 2 N |
| Determination of coating adhesion | ISO 2411:2017 | | | > 15 N/10mm | |

Leap by Beyond Leather

Department: R&D
TDS ID: 0006
Revision: 22/05/2026
Sign off: R&D

| Property | Standard | Leap original | | Leap plus | |
|---|---|---|---|---|---|
| | | Long | Cross | Long | Cross |
| Abrasion resistance (Martindale method) | ISO 5470/2 (Wool abradant) | | | Pressure: 12 kPa<br>1600 cycles (dry): Very slight damage (Modification of brightness)<br>Same evaluation at all higher time points, until (and including) 102.400 cycles (dry) | |
| Restricted arylamines from cleavage of azodyes | EN ISO 14362-1<br>EN ISO 14362-3 | Below detection limit for all: <5 mg/kg | | | |
| Free formaldehyde | EN ISO 14184-1:2011 | Below detection limit for all: <16 mg/kg | | | |
| Extractable heavy metals | EN 16711-2:2015 | Below detection limit for all.<br>Antimony (Sb) <0.10 mg/kg<br>Arsenic (As) <0.02 mg/kg<br>Cadmium (Cd) <0.05 mg/kg<br>Cobalt (Co) <0.10 mg/kg<br>Copper (Cu) 0.48 mg/kg<br>Chromium (Cr) 0.19 mg/kg<br>Mercury (Hg) <0.01 mg/kg<br>Nickel (Ni) <0.10 mg/kg<br>Lead (Pb) <0.10 mg/kg | | | |
| Detection and determination of alkylphenol ethoxylates (APEO) | ISO 18254-1:2016 (Part 1: Method using HPLC-MS) | Below detection limit for all: <10 mg/kg | | | |

Leap by Beyond Leather

Department: R&D
TDS ID: 0006
Revision: 22/05/2026
Sign off: R&D

| Property | Standard | Leap original | | Leap plus | |
|---|---|---|---|---|---|
| | | Long | Cross | Long | Cross |
| Polycyclic Aromatic Hydrocarbons | AfPS GS 2014:01 PAK | Below detection limit for all.<br>Acenaphthene <0.04 mg/kg<br>Acenaphthylene <0.04 mg/kg<br>Fluorene <0.04 mg/kg<br>Phenanthrene <0.04 mg/kg<br>Anthracene <0.04 mg/kg<br>Fluoranthene <0.04 mg/kg<br>Pyrene <0.04 mg/kg<br>Benz(a)anthracene <0.04 mg/kg<br>Chrysene <0.04 mg/kg<br>Benzo(a)pyrene <0.04 mg/kg<br>Benzo(e)pyrene <0.04 mg/kg<br>Benzo(g,h,i)perylene <0.04 mg/kg<br>Naphthalene <0.04 mg/kg<br>BbF + BkF + BjF - <0.12 mg/kg<br>Indeno[1,2,3-cd]pyrene +<br>Dibenz[a,h]anthracene - <0.08 mg/kg<br>Dibenzo(a,l)pyrene <0.04 mg/kg<br>Dibenzo(a,e)pyrene <0.04 mg/kg<br>Dibenzo(a,i)pyrene <0.04 mg/kg<br>Dibenzo(a,h)pyrene <0.04 mg/kg<br>1-methylpyrene <0.04 mg/kg<br>Cyclopenta(c,d)pyrene <0.04 mg/kg<br>Sum of 24 PAHs - 0.00 mg/kg | | | |
| Flammability:<br>Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources | BS 5852 (source 0, source 1) | Does not ignite: Passed | | | |
| Flammability:<br>California Technical Bulletin 117: June 2013 – Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered | Cal 117 | Does not ignite: Passed | | | |

Department: R&D
TDS ID: 0006
Revision: 22/05/2026
Sign off: R&D

| Property | Standard | Leap original | | Leap plus | |
|---|---|---|---|---|---|
| | | Long | Cross | Long | Cross |
| Furniture – Cover Fabric Test | | | | | |
| Care instructions | |  <br>Mild soap<br>Diluted chlorine solution (1 dL chlorine to 4 L water, rinse with water after)<br>Cleaning wipes (rinse with water after)<br>Oxivir H+ soap / AHP-based disinfectants (rinse with water after) | | | |

Tests performed by Eurofins Spain, CATAS S.p.A.and Centro Tessile Cotoniero e Abbigliamento S.p.A.