

Technical Data Sheet

Property	Standard	Leap Flex	
		Long	Cross
Tensile strength	ISO 3376:2020	8 MPa	8 MPa
Max. elongation		130%	130%
Single edge tear strength	ISO 3377-1:2011	Across-warp: 44 N	Across-weft: 22 N
Double edge tear strength	ISO 3377-2:2016	65 N	97 N
Distension and strength (Ball burst method)	ISO 3379:2015	Average burst extension 14.0 mm Av. burst force 135 N	
Dimensional change (shrinkage) of leathers caused by ageing	ISO 17130:2021 (6E: 168 h $\pm$ 2 h at 90 °C $\pm$ 2 °C)	-0.60%	-0.30%
Adhesion of finish	ISO 11644:2022	> 15 N/10mm (dry)	
Flex resistance	ISO 5402-1:2011	Ok at 50.000 flexes	
Abrasion resistance (Martindale method)	ISO 5470-2: 2003	1600 cycles - grade 2 3200 cycles - grade 2-3 6400 cycles - grade 2-3 12800 cycles - grade 2-3 25600 cycles - grade 2-4 38400 cycles - grade 2-4 51200 cycles - grade 2-4 75000 cycles - grade 2-4	
Colour fastness to rubbing (VESLIC rub test) - dry, wet and sweat	ISO 11640:2018	100 cycles (dry): Change in color 4-5 Staining 4-5 50 cycles (wet): Change in color 4-5 Staining 4-5 50 cycles (sweat): Change in color 4-5 Staining 4-5	



by **Beyond Leather**

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Sign off: R&D

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Colour fastness to water spotting	ISO 15700:2008	Penetration time: >30 min Change of color after 16h (no manual treatment): 5 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) Radiation: (42±2) W/m ² (300-400 nm) Equipment used: Q-SUN XE-3	
Colour fastness to perspiration	ISO 105-E04:2013	Adjacent multifibre fabric used: DW Change in Colour (acid) 5 Staining on Diacetate (acid) 4-5 Staining on Cotton (acid) 4-5 Staining on Polyamide (acid) 4-5 Staining on Polyester (acid) 4-5 Staining on Acrylic (acid) 4-5 Staining on Wool (acid) 4-5 Change in Colour (basic) 5 Staining on Diacetate (basic) 4-5 Staining on Cotton (basic) 4-5 Staining on Polyamide (basic) 4-5 Staining on Polyester (basic) 4-5 Staining on Acrylic (basic) 4-5 Staining on Wool (basic) 4-5	
Colour Fastness to Rubbing - Dry, Wet	EN ISO 105 X12: 2016	4-5 (dry, wet)	
Colour 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: 5	
Tensile strength Max. elongation	ISO 1421:2016	350 N 130%	350 N 130%
Determination of tear force of trouser-shaped test specimens	ISO 13937-2:2000	Across-warp: 71 N +/- 12 N	Across-weft: 32 N +/- 1 N
Determination of tear resistance - Part 1: Constant rate of tear methods	ISO 4674-1:2016	Across-warp: 71 N +/- 12 N	Across-weft: 64 N +/- 3 N

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Determination of coating adhesion	ISO 2411:2017	> 50 N/5cm	
Abrasion resistance (Martindale method)	ISO 5470/2 (Wool abrasant)	Pressure: 12 kPa 1600 cycles (dry): Very slight damage (Modification of brightness) Same evaluation at all higher time points, until (and including) 102.400 cycles (dry)	
Restricted arylamines from cleavage of azodyes	EN ISO 14362-1 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	Antimony (Sb) <0.10 mg/kg Arsenic (As) <0.02 mg/kg Cadmium (Cd) <0.05 mg/kg Cobalt (Co) <0.10 mg/kg Copper (Cu) 0.24 mg/kg Chromium (Cr) 0.27 mg/kg Mercury (Hg) <0.01 mg/kg Nickel (Ni) <0.10 mg/kg 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 The sum of all is below <25 mg/kg	

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Polycyclic Aromatic Hydrocarbons	AfPS GS 2014:01 PAK	Acenaphthene <0.04 mg/kg Acenaphthylene <0.04 mg/kg Fluorene <0.04 mg/kg Phenanthrene 0.11 mg/kg Anthracene <0.04 mg/kg Fluoranthene <0.04 mg/kg Pyrene 0.09 mg/kg Benz(a)anthracene <0.04 mg/kg Chrysene <0.04 mg/kg Benzo(a)pyrene <0.04 mg/kg Benzo(e)pyrene <0.04 mg/kg Benzo(g,h,i)perylene <0.04 mg/kg Naphthalene 2.20 mg/kg BbF + BkF + BjF - <0.12 mg/kg Indeno[1,2,3-cd]pyrene + Sum of 18 PAHs <10 mg/kg	
Flammability: 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	
Care instructions		 Mild soap Diluted chlorine solution (1 dL chlorine to 4 L water, rinse with water after) Cleaning wipes (rinse with water after) Oxivir H+ soap / AHP-based disinfectants (rinse with water after)	

Test results supported by 3rd party results by Eurofins Spain, CATAS S.p.A. and Intertek.