

Technical characteristics for Piñatex™ ORIGINAL

Tested property	Test method	Piñatex™ ORIGINAL performance
Tear strength	EN ISO 3377-2 (Minimum 40 N)	136 N (warp) 145.3 N (weft)
Tensile strength	Bonditex SA laboratory test	380.67 N (warp) 140.5 N (weft)
Seam Rupture	Bonditex SA laboratory test	299.13 N (warp) 144.17 N (weft)
Density	EN ISO 2420:2002, Variation from indicated value: ± 0.1 g/cm ³	0.335 g/cm ³
Weight	EN ISO 2420:2002	458.26 g/m ²
Flexing endurance	EN ISO 5402 (Requirement: no finish cracks after 20,000 cycles)	No damage after 20,000 cycles
Cold crack resistance of finish	EN ISO 17233 (Requirement: no finish cracks at -10°C)	No cracking at -10°C
Finish adhesion	EN ISO 11644, Dry adhesion (Minimum 2 N /10 mm)	12.6 N/10 mm
Colour fastness to rubbing cycles (c) – change in colour and staining.	EN ISO 11640 (Perspiration solution according to EN ISO 11641 Assessment according to ISO 105-A02 and ISO 105-A03 (Grey Scale Rating, GSR) (Minimum: Dry: 4; Wet: 3; Perspiration: 3)	4-5 for all
Colour fastness to light	EN ISO 105-B02 Xenon light and Blue wool scale (BWS) (Minimum BWS 5)	> BWS 5
Water spotting	EN ISO 15700 Assessment according to ISO 105-A02 (Minimum 3)	4-5, no change
Maintainability	IOS-TM-0012 Assessment according to ISO 105-A02 the leather shall be aged according to EN ISO 17228 method 6C (Minimum 2-3)	Ketchup 3 Oil 3-4 Coffee 2-3 Soiling cloth 4 Red wine 3-4,
Formaldehyde	EN ISO 14184-1:2011 (Requirement: <75 mg/kg)	Not detectable
Phthalates	EN ISO 15777 Extraction and GC-MS	Conform to requirements
Pentachlorophenol	EN ISO 17070:2006	< 0.1 mg/kg
pH	EN ISO 3071:2006 (Requirement: 4 - 9)	6.7
Resistance to ignition by cigarettes	EN 1021-1:2014, Small scale, Non-FR treated cover	Conform to requirements

Tests conducted at ITTC Shanghai, Intertek Turkey, Institute of Natural Fibers & Medicinal Plants and Bonditex SA.