

String Theory Knit

Technical Specifications

SKN-TS-20210305-02-EN

Name	Standard	Symbol	Result
CE / DOP	EN 14041		CPR/A1/015
Usage Classification	EN 1307		23, 33
Luxury Class	EN 1307		LC2
Size	EN 994		609.6 x 609.6mm (24" x 24")
Construction Gauge	ISO 2424		Textured Patterned Loop 1/10*
Fibre Composition	-		String Theory Nylon 6,6 (50% post-production recycled)
Dye Method	-		Yarn & Solution Dyed
Primary Backing	-		Non-Woven Polyester/Polyamide
Secondary Backing	-		PVC
Stitches per 10cm	-		43
Total Thickness (mm)	ISO 1765		6.4 mm (+15%/-10%)
Total Mass Per Unit Area (g/m ²)	ISO 8543		4102 g/m ² (±15%)
Effective Pile Thickness (mm)	ISO 1766		2.86 mm
Pile Mass Total/Effective (g/m ²)	ISO 8543		644/462 g/m ²
Surface Pile Density (g/cm ³)	ISO 8543		0.16 g/cm ³
Number of Tufts/Loops (calculated per m ²)	ISO 1763		180,500
Fire Resistance	EN 13501-1		B _{fl} -s1
Slip Resistance	EN 13893		Class DS
Dimension Stability	EN 986		≤ 0,2 %
Anti-Static Body Voltage (kV @25%rh)	ISO 6356		≤ 2.0 kV
Vertical Electric Resistance	EN 10965		≥ 10 ¹⁰ Ω
Horizontal Electric Resistance	EN 10965		≥ 10 ¹⁰ Ω
Castor Chair Suitability	EN 985		r ≥ 2.4 / Intensive Use
Light Colour Fastness	EN ISO 105: B02		≥ 6
Colour Fastness to Rubbing	EN ISO 105: X12		4/5
Colour Fastness to Water	EN ISO 105: E01		5
Resistance to Fraying	EN 1814		Pass
Impact Sound Insulation ΔL _w	EN ISO 717-2		25 dB
Sound Absorption	EN ISO 11654 / ISO 354		α _w = 0.15 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.03 0.02 0.18 0.33 0.46
Thermal Resistance (m ² K/W)	ISO 8302		0.065 m ² K/W
Emissions COV			A+
Emissions	M1		Certified / https://cer.rts.fi/en/m1
Emissions	IAC Gold		Pass
Environment	ISO 14025		Mannington decl. no EPD 10269