

Laboratory	TUV Sud South Asia Pvt. Ltd., A-151, 2C Main Road, 2nd Stage, Peenya Industrial Estate, Bangalore		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	25.08.2013
Certificate Number	T-1305	Valid Until	24.08.2015
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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I. TEXTILES & RELATED PRODUCTS

1.	Textiles	Breaking Strength & Elongation	ASTM D5035-2011 ISO 13934 Part I -2013 ASTM D5034-2009 ISO 13934 Part II-1999	10N to 2.0 kN 0 to 200%
		Tear strength	ASTM D 1424-2009 ISO 13937 Part I-2000 ASTM D 2261-2013 ISO 13937 Part II-2000 ISO 13937 Part III-2000 ISO 13937 Part IV-2000	2.4 N to 53.3 N 10 N to 2.0 kN
		Seam Slippage / strength	ASTM D 434-1995 ASTM D 1683-2011 ISO 13935 Part I & II -1999 ISO 13936 Part I, II & III - 2004	10 N to 2.0 kN
		Bursting Strength of textile fabrics	ASTM D 3786-2013 ISO 13938 Part 1-1999	20 to 870 PSI
		Pilling Resistance	ISO 12945-Part I-2000 ISO 12945-Part II-2000 ASTM D 4970-2010	Grade 1 to 5
		Abrasion Resistance	ISO 12947-Part I, II, III, IV-1998 ASTM D 4966-2012	Upto 99999 cycles Grade 1 to 5

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	Textiles	Threads per unit length	BS 2862 -1984 ASTM D3775-2012 ISO 7211/2-1984	Upto 200 per cm
		Fabric count (Stitch Density / Stitches Per unit Length)	BS 5441-1988 ASTM D3887-1996 (2008)	Upto 300 per inch
		Fabric Mass per unit area & unit length	BS 2471-2005 ASTM D3776-2009 ISO 3801-1977	Upto 1000 gms/sq.m
		Width of textile fabrics	ASTM D3774 – 96 (RA 2012) ISO 3932-1976	1 to 500 cm
		Resistance to Unsnapping of snap fasteners	ASTM D 4846 – 96 (RA 2011)	10 N to 500 kN
		Yarn Number (Count) based on short length specimen	ASTM D 1059 – 2001	1 to 150 Ne
		Stretch And recovery	ASTM D 3107- 2011	10 N to 2.0 kN
		Tension And Elongation of Elastic Fabric	ASTM D 4964–96 (2012)	10 N to 2.0 kN
		Bow and skew in Fabrics	ASTM D 3882-2012	0 to 40 %
		Absorbency	AATCC 79-2010	1 to 60 sec

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	Textiles	Crease recovery Angle	ISO – 2313 – 1972 E	0 to 180°
		Pile fabric abrasion.	ASTMD 4685-07 (2011)	Grade 1 to 5
		Button Impact Resistance	ASTM D5171 - 09a	N/A
		Attachment Strength	BS 7907 : 2007 (Annex B)	N/A
2.	Toys and Other Articles Intended for Use by Children Under 8 Years of Age	Sharpness of edges	EN 71 Part 1-Clause-8.11 - 2011 16 CFR 1500.48 - 2011	Qualitative
		Sharpness of Points	EN 71 Part 1-Clause-8.12 - 2011 16 CFR 1500.49 - 2011	Qualitative
3.	Toys and Textile Articles	Small parts Regulations	16 CFR 1501 & 1500.50-53 - 2011	Qualitative
		Small Part Cylinder	EN 71 Part 1-Clause-8.2 - 2011	Qualitative
		Torque Tes	EN 71 Part 1-Clause-8.3- 2011	9 kgf.cm

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