

Laboratory	Regional Laboratory, Textile Committee, A-18/B, Loha Mandi, Phase-II, Naraina, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	14.10.2013
Certificate Number	T-0637	Valid Until	13.10.2015
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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
I. TEXTILE & RELATED PRODUCTS				
1.	Yarn & Chords	Linear density	IS : 1315 : 1977, RA 2010	0.5 to 130 ^s Ne
		Lea Strength	IS : 1671 : 1977, RA 2008	40 N to 4.5 kN (10 lbs to 990 lbs)
		Twist : Untwist Retwist Method Direct Method (Filaments)	IS : 832 : 1985, RA 2010 ASTM D 1422 : 99, RA 2008 ISO : 2061 : 2010 (E) ASTM D 1423 : 02, RA 2008	2 to 2700 tpm (3 to 70 tpi)
		Breaking Load and elongation at break of single strand	ASTM D 2256/D2256 M - 10 ^{E1} IS 1670 : 1991, RA 2007 ISO 2062 : 2009 (E)	1 N to 4.5 kN (100 g to 450 kg) Elongation 0.5 to 100%
2.	Woven Textiles Fabrics	Threads per unit length	IS :1963 :1981, RA 2008 ASTM D 3775 : 08 ISO 7211/2 : 1984(E) BSEN 1049-2 : 1994	10 to 1000 per dm 4 to 400 per inch
		Twist of Yarn removed from fabric	IS : 832: 1985, RA 2010 ASTM D 1422 – 99, RA 2008 ISO 7211/4 – 1984	2 to 2700 tpm (3 to 70 tpi)
		Breaking Load & Elongation – Strip	IS 1969 : 1985, RA 2006 ASTM D 5035 – 06 (RA 2008 ^{E1}) ISO 13934 -1 : 2013	Strength: 25 N to 4.5 kN (2.5 to 450 kg) Elongation: 0.5 to 50%
		Linear density of Thread removed from fabric	TC/LAB TM-02	0.5 to 130 Ne 6 to 500 (D)

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	Woven Textiles Fabrics	Weight per square meter/ Linear meter of fabrics (Weighing Method)	TC/LAB TM-03 IS 1964 : 2001, RA 2006 ISO 3801 : 1983 BSEN 12127 : 1998 ASTM D 3776/D3776 M- 09 a	10 to 800 g
		Length & Width	IS 1954 : 1990, RA 2007 ASTM D 3773/D3773 M - 10 ASTM D 3774 – 96,RA 2008 ^{E1}	Length 10 cm to 30m Width 0.5 to 150 cm
		Abrasion Resistance (Martindale)	ASTM D 4966 - 12	i) 1 to 99999 rubs ii) Weight loss 0 to 50% iii) Grade 1 to 5/ ½ Gr
			ISO 12947-1 : 1998 ISO 12947-2 : 1998 ISO 12947-3 : 1998 ISO 12947-4 : 1998	i) 50 to 99999 Rubs ii) Weight Loss 0 to 50% iii) Grade 1 to 5/ ½ Gr
		Pilling Resistance (Box Type)	ISO-12945-1-2000 BSEN ISO 12945 -1-2001 IS 10971 : 1984, RA 2006	Grade 1 to 5/ ½ Gr
	Tear Strength (Elmendorf)		ASTM D : 1424 - 09 ISO : 13937-1 -2000	320g to 5.1kg/ 16g

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