

Laboratory	Regional Laboratory, Textiles Committee, A-18/B, Madan Lal House, Loha Mandi, Naraina, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	05.02.2016
Certificate Number	T-0637	Valid Until	04.02.2018
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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 MATERIALS			
1.	Yarn & Chords	Linear density	IS 1315: 1977 (RA 2010)	0.5 ^s to 130 ^s Ne
		Lea Strength	IS 1671: 1977 (RA 2008)	40 N to 4.5 kN (10 lbs to 990 lbs)
		Twist: Untwist Re twist 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 tpm to 2700 tpm (3 tpi to 70 tpi)
		Breaking Load and elongation at break of single strand	ASTM D 2256/D 2256 M 10 ^{E1} IS 1670: 1991 (RA 2007) ISO 2062: 2009 (E)	1 N to 4.5 kN (100 g to 450 kg) 0.5 % to 100 %
2.	Woven Textiles Fabrics	Threads per unit length	IS1963: 1981 (RA 2008) ASTM D 3775: 08 ISO 7211/2: 1984 (E) BSEN 1049-2: 1994	(10 to 1000)/ dm (4 to 400)/inch
		Twist of Yarn removed from fabric	IS 832: 1985 (RA 2010) ASTM D 1422: 99 (RA 2008) ISO 7211/4: 1984	2 tpm to 2700 tpm (3 tpi 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 kg to 450 kg) 0.5 % to 50 %
		Linear density of Thread removed from fabric	TC/LAB TM-02	0.5 ^s Ne to 130 ^s Ne 6 (D) 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/D 3776 M: 09 a	10 g to 800 g
		Length & Width	IS 1954: 1990 (RA 2007) ASTM D 3773/D 3773 M: 10 ASTM D 3774: 96 (RA 2008 ^{Et})	Length 10 cm to 30 m Width 0.5 cm to 150 cm
3.	Textiles	Abrasion Resistance (Martindale)	ASTM D 4966: 12	1 rubs to 99999 rubs Weight loss 0 to 50 % Qualitative (Grade 1 to 5)
			ISO 12947-1: 1998 ISO 12947-2: 1998 ISO 12947-3: 1998 ISO 12947-4: 1998	50 Rubs to 99999 Rubs Weight Loss 0 to 50 % Qualitative (Grade 1 to 5)
		Pilling Resistance (Box Type)	ISO 12945-1: 2000 BSEN ISO 12945-1: 2001 IS 10971: 1984 (RA 2006)	Qualitative (Grade 1 to 5)
		Tear Strength (Elmendorf)	ASTM D 1424: 09 ISO 13937-1: 2000	(320 gm to 5.1 kg)/16 gm

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