

Laboratory	Regional Laboratory, Textile Committee, Raj Chambers, 978-A, Thadagam Road, Coimbatore, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	13.06.2014
Certificate Number	T-0430	Valid Until	12.06.2016
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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. TEXTILE MATERIALS

1. Fibre	Physical properties a) Micronaire b) Length c) Length uniformity d) Strength e) Elongation f) Short Fibre g) Colour Rd+b	ASTM D 5867-2012	2 to 8 14 mm to 40 mm 14% to 40% 10 g/tex to 35 g/tex 0 to 100% 0 to 100% Rd 30 to 90 +b 4 to 18
	Trash Content	TC/Lab/TM-03 (2002) IS 4871-1968, (RA 2004) ASTM D 2812-2007 (2012)	0.5% to 50%
2. Textiles	Cotton fibre Maturity by sodium hydroxide swelling method	IS 236-1968, (RA 2004)	1% to 95%
3. Yarn & Chords	Breaking load & Elongation of single strand	IS 1670-1991, (RA 2012) ASTM D 2256/2256 M-2010 ISO 2062-2009	Strength: 1 N to 4.5 kN (100 g to 90000 g) Elongation: 2% to 250%
4. Yarn	Linear density	IS 1315-1977, (RA 2010)	5 tex to 590 tex (1 ^s to 120 ^s Ne)
	Lea Strength	IS 1671-1977, (RA 2010)	100 N to 4.5 kN (20 lb to 1012 lb)

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	Yarn	Twist in yarn and direction of twist	IS 832-1985, (RA 2011) ASTM D 1422-2013 ASTM D 1423-2002(2008) ISO 2061-2010	1 to 1870 turns per meter
		Unevenness of Textile strand	ASTM D 1425/D-1425M 2009 ISO 16549-2004 (E)	2% to 40%
		Imperfections per unit Length	TC/ LAB-TM-01(2001) ISO 16549-2004 (E)	0 to 9999 / km
		Grading of spun yarn for appearance	ASTM D 2255-2013 / ASTM D 2255 M 2009	Below D to A+ Grade Appearance Index : 60 to 130
5.	Fabric/ RMG / Made up	Number of Threads per unit length in woven fabrics	IS 1963-1981, (RA 2004) ASTM D 3775- 2012 BSEN 1049-2-1994	10 to 500 per dm
		Breaking strength and Elongation-Grab test	ASTM D 5034-2009 (2013) ISO 13934-2-14 IS 1969-1985, (RA 2010)	Load: 100 N to 4.5 kN Elongation: 2% to 50%
		Breaking strength and Elongation-Strip test	IS 1969-1985, (RA 2010) ASTM D 5035-2011 BSEN ISO 13934-1-13	Load: 100 N to 4.5 kN Elongation: 2% to 50%
		Resistance to Seam slippage and Seam strength	ASTM D 434-1995 ASTM D 1683-2011	Load: 44 N to 900 N Elongation: 1% to 50%

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	Fabric/ RMG / Made up	Linear density of Thread removed from fabric	TC/ LAB TM-02 (Ver. 01- 2014)	5 tex to 590 tex (1 ^s to 120 ^s Ne)
		Mass per Unit Length / Mass per unit Area	TC/ LAB TM-04 (Ver. 01-2014) IS 1964-2001, (RA 2011) ISO 3801-1983-Method 5 BSEN ISO 12127-2007 ASTM D 3776/3776M -09a - option C	10 g/m ² to 1000 g/m ²
		Length and Width of the fabric	IS 1954-1990 (2007)	Length: 1 cm onwards Width: 1 cm to 300 cm
		Tearing Strength – by tongue (single rip)	ASTM D 2261-2011	10 N to 90 N
		Recovery from creasing of textiles fabrics	IS 4681-1981, (RA 2004) ISO 2313-1972 (E)	45° to 180°
		Pilling resistance (Pill box Method)	IS 10971-1984, (RA 2006) ISO 12945-1- 2000	Grade 1 to 5

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