

Laboratory	TRADC Laboratory, Birla Cellulosic, Kharach, Kosamba, Bharuch, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	17.07.2015
Certificate Number	T-1274	Valid Until	16.07.2017
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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	Linear Density of Yarns spun on Cotton System	IS 1315: 1977 (RA 2010)	Lea Count (0.5 ^s to 130 ^s) Ne
		Yarn Strength Parameters of Spun Yarns	IS 1671: 1977 (RA 2004)	Lea Strength 99.9 N to 7286 N (22.5 lbs to 337.2 lbs)
		Single End Breaking Force	ISO 2062: 2009 Method 'B'	(50 to 50000) cN
		Tenacity		(2.44 to 1666) cN/Tex
		Elongation at Break		Upto 140 %
		Twist in Yarn	IS 832 (Part 2): 2011	1 TPI to 75 TPI
		Unevenness of Textile Strands Using Capacitance Testing Equipment	ISO 16549: 2004	U % 4 to 30 (-) 50 % : 0 to 1000/km (+) 50 % : 0 to 1000/km (+) 200 % : 0 to 1000/km (+) 280 % : 0 to 1000/km
		Classimat Faults	ASTM D 6197: 1999 (RA 2011)	Upto 25000/100 km
2.	Fabric	Width of Fabric	IS 1954: 1990 (RA 2002)	0.4 cm to 300 cm
		Mass Per Unit Area	ISO 3801: 1977	20 GSM to 300 GSM
		Thickness of Fabric (Woven, Knitted fabric)	IS 7702: 2012	0.1 mm to 9 mm

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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
	Fabric	Threads per inch in Woven Fabrics	IS 1963: 2004	(20 to 300) threads per inch
		Tear Strength of Textile Fabrics	IS 6489: 1993 (RA 2008)	320 g to 5120 g 3.1 N to 50.2 N
		Crease Recovery Angle by Measuring Angle of Recovery	IS 4681: 1981 (RA 2004)	10 ° to 180 °
		Pilling Resistance of fabric	IS 10971: 1984 (RA 2010)	Qualitative (Grade 1 to 5)

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