

RECOMMENDED SCOPE OF ACCREDITATION

(For Testing Laboratories)

Laboratory: Man Made Textile Research Association (MANTRA), Surat				Date(s) of Visit: 24 th & 25 th July, 2014	
Discipline: Mechanical					
SI	Product(s) / Material of test	Specific tests performed	* Test Method / Standard against which tests are performed	Range of Testing/ Limits of detection	Uncertainty of Measurement [†] (±)
1	Yarn	Tensile Properties of Yarn by the Single-Strand Method	ASTM D 2256/ D2256 M -10 ⁰¹ (OPTION A)	0.4N – 9 N (40g – 900g) 15% - 35%	4.84g(BS) at 370g 0.71%(E) at 28%
2	Fabric	Breaking Force and Elongation of Textile Fabrics (Strip Method)	ASTM D 5035 - 11	100N – 5 kN (10kg – 500kg) 15% - 60%	3.01kg at 112 kg 1.66%(E) at 54.1%
3	Yarn	Linear Density of Yarn (Yarn Number) by the Skein Method	ASTM D 1907/D1907M-12	15 D - 200 D	1.2D at 88 D
4	Fabric	Yarn Number Based on Short-Length Specimens	MANTRA/M/LAB TM-02(2011) (In-House Test Method)	15 D - 450D	1.26D at 36 D
5	Fabric	Warp End Count and Filling Pick Count of Woven Fabric	ASTM D 3775 - 12	4/4 - 240/120 (E/P)	1.76(E) at 73.6 (E) 1.41(P) at 62.4(P)
6	Yarn	Twist in Yarn by Direct Counting	ASTM D 1423 – 02(2008)	40 - 3600 tpm	42.41tpm at 2816 tpm
7	Fabric	Twist of Yarn removed from fabric	ASTM D 1423 – 02(2008)	40 - 3600 tpm	41.5tpm at 2474tpm
8	Fabric	Length of Woven Fabric. (Option A-Hand)	ASTM D3773/D3773M - 10	1 mt – 7 mt	2.0 mm at 2900.6 mm
9	Fabric	Width of Woven Fabric.	ASTM D 3774 -96(2012) (OPTION B)	0.5 cm – 200 cm	0.16 cm at 110 cm
10	Fabric	Mass Per Unit Area (Weight) of Fabric	ASTM D 3776 /D3776M- 09a (2013) (OPTION C)	15 g/m ² – 800 g/m ²	1.20g/m ² at 109.53g/m ²
11	Fabric	Number of Filaments in Yarn	MANTRA/M/LAB TM-01(2009) (In-House Test Method)	1 – 108 filaments	0.63 filaments at 108 filaments
<p><i>* When referring to publications like NCCLS, IP, BP, USP, ASTM, AOAC etc. kindly mention the clause / chapter / page number, as appropriate.</i></p> <p><i>† The value at which uncertainty of measurement estimated shall also be specified.</i></p> <p><i>Laboratories performing site testing shall clearly identify the Specific tests on products(s) / material performed at permanent laboratory and / or at site. Refer NABL 130 for details.</i></p>					
Signature, Date & Name of Lab Representative		Signature, Date & Name of Assessor(s)		Signature, Date & Name of Lead Assessor	