Laboratory Regional Laboratory, Textile Committee, P. Balu Road, Prabhadevi Chowk, Prabhadevi, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Mechanical Testing Discipline Issue Date 08.12.2014

Certificate Number T-0288 Valid Until 07.12.2016

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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		
I.	TEXTILE & RELATED PRODUCTS					
1.	Wool Fibre	Wool fibre diameter	IS 744:2000 (R 2010)	10 micron to 100 micron		
2.	Cotton Fibre	HVI and ICC mode Micronaire, Length, Length uniformity, Strength, Elongation. Short fibre Index Colour	ASTM D: 5867-2012	Upto 8 Upto 40 mm Upto 60 % Upto 50 g/tex Upto 10 % Upto 20 11-1 to 85-4		
		Maturity of cotton fibre by Sodium Hydroxide swelling method	IS 236: 1968 (R 2010)	25 % to 100 %		
		Lint and trash content of cotton	IS 4871:1968 (R 2008)	1 % to 20 %		
2.	Yarn	Linear density of yarns spun on cotton system	IS 1315:1977 (R 2008)	1s to 130 s		
		Yarn strength parameters of yarns spun on cotton system	IS 1671:1977 (R 2004)	20 N to 8000 N		
		Twist in yarn Part 1: Direct counting method Part 2: Untwist/Re-twist method	IS 832 (Part 1):2011 ASTM D: 1422-2013 ISO 2061-1995 IS 832 (Part 2):2011	1 TPM to 2360 TPM		
		for single spun yarn Unevenness of Textile strand using capacitance method	ASTM D: 1423-2002 (R 2008) ISO 16549:2004(E)	1 % to 40 %		

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	Yarn	Imperfections per unit Length	ISO 16549:2004(E)	1 to 9999/1000 m
3.	Yarn & Chords	Breaking Load and elongation at break of single thread	IS 1670:1991(R 2007) ASTM D: 2256-97 ISO: 2062-1993	Strength: 20 cN to 80 N Elongation:1 % to 50 %
4.	Fabric/RMG /Made up	Threads per unit length in woven fabrics	IS 1963:1981 (R 2004) ASTM D: 3775- 2012 ISO 7211-2 - 1984 BSEN 1049–2-1994	100 /dm to 1000/ dm
		Twist of yarn removed from fabric	IS 832:1985 (R 2010) ASTM D: 1422-2013 ISO 7211-4 -1984	1 TPI to 2360 TPI
		Breaking strength / force and elongation of textile fabrics	IS 1969 (Part 1) :2010 IS 1969 (Part 2) :2010 ASTM D: 5034-2009 (Grab) (R 2013) ASTM D: 5035-2011 (Strip) (R 2008) ISO 13934-1-2013 (Strip) ISO 13934-2-2014 (Grab)	Strength: 20 N to 8000N Elongation: 1% to 50%
		Linear density of Thread removed from fabric	TC/ LAB TM-02	5 Tex to 600 Tex (1s to 120 ^s) 10 D to 1000 D
		Mass per unit length and mass per unit area of fabric	TC/ LAB TM-03 IS 1964-2001(R 2010) ISO 3801-1977 BSEN 12127-1998 ASTM D: 3776-09 (R 2013)	10 to 6000 g/m ²
		Length and width of woven fabric	IS 1954:1990 (R 2007) ASTM D: 3773- 2010	Width: 1 cm to 2.5 m

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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/RMG /Made up	Fabric propensity to surface fuzzing and to pilling (Pilling Box method)	BSEN ISO-12945-1 -2001 ISO-12945-1-2000 IS 10971 – 1 : 2011	Qualitative (Grade 1 to 5)
		Abrasion Resistance of textile fabric (Martindale method)	ASTM D: 4966 – 2012 ISO 12947- 1-1998 ISO 12947- 2-1998 ISO 12947- 3-1998 ISO 12947- 4-1998	1.10 to 99999 movements 2.Weight loss upto 50% 3. Colour Change Grade 1 to 5
		Tearing strength of fabric by tongue (single rib)	ASTM D 2261 – 2013	5 N to 80 N
		Tearing Strength of fabric by falling pendulum (Elmendorf)	ASTM D 1424 – 2009 (RA 2013) ISO: 13937 –1-2000	3 N to 50 N
		Stiffness of fabrics	IS 6490-1971 (RA 2008)	1 cm to 8 cm bending
		Recovery from creasing of textile by measuring the angle of recovery	IS 4681-1981 (RA 2004)	20 ° to 180 °
		Flammability and flame resistance to textile fabrics (Inclined)	IS 11871-1986 (RA 2004) (Method B)	1s to 300 s
		Flammability and flame resistance to textile fabrics (Vertical)	IS 11871-1986 (RA 2004) (Method A)	Burning length: 0 to 31.5 cm After flame & After glow: 1s to 300 s

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	Fabric/RMG /Made up	Slippage resistance of yarns at a seam in woven fabrics - Part 1: Fixed seam opening method	ISO 13936-1: 2004	10 N	I to 8000 N	

ISO 13936-2: 2004

Part 2: Fixed load method