

Laboratory **Regional Laboratory, Textiles Committee, North Wing, 1st Floor, TNSCB Complex, 130 (Old No. 212), R.K. Mutt Road, Mylapore, Chennai, Tamil Nadu**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5094** (in lieu of T-0433 & T-0434)

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Validity **29.12.2016 to 28.12.2018**

Last Amended on --

Sl.	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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CHEMICAL TESTING

I.	TEXTILE (WOVEN & NON WOVEN)			
1.	Fibres, Yarn	Moisture Content	IS 199:1989 (RA 2005)	1% to 100 %
2.	Fibres, Yarn, Apparels	Identification of fibres	IS 667:1981 2008 AATCC: 20-2013	Qualitative
3.	Fibres, Yarn, Fabric, Apparels, Made-ups	Quantitative analysis of mixtures:	IS 1889:1979 (Part 4) (RA 2010) (Cotton + Viscose) AATCC: 20A-2014	1% to 99%
			IS 3416- 1988 Part I (RA 2008) (Polyester + Cotton) or (Polyester + Viscose) AATCC: 20A-2014	
			IS 9889:1988 (RA 2010) (Silk & wool)	
			IS 6503:1988 (RA 2010) & IS: 2005:1988 (RA2009) (Nylon + Others)	
			IS 2006:1988 (RA 2009) (Wool + Others)	
			IS 3421:1988(RA 2010) AATCC 20 A 2014 (Acrylic + Others) –DMF method	
			IS 9896:1981(RA 2008) (Polyolefin + others)	
4.	Fabrics, Garments & Made-Ups	% Composition by physical separation	TC/LAB-TM-14 Ver.2: 2016 AATCC 20 A-2014	1% to 99%

Malancha Das
Convenor

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Program Director

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5.	Fabrics, Garments & Made-Up, Yarn	Colour fastness to washing	IS/ ISO 105 C-10-2006 (RA 2009) ISO 105 C-10-2006	Qualitative Grade 1 to 5
		Colour fastness to Commercial Laundering	AATCC 61-1A--2013 ISO-105-C06:2010	Qualitative Grade 1 to 5
		Colour fastness to dry cleaning	IS 4802-1988 (RA 2010) ISO 105- D01--2010 AATCC 132-2013	Qualitative Grade 1 to 5
		Colour fastness to organic solvents	IS 688:1988 (RA 2004) ISO 105-X05-1994	Qualitative Grade 1 to 5
		Colour fastness to rubbing / crocking	IS 766:1988 (RA 2009) AATCC 8-2013 ISO 105-X 12-2001	Qualitative Grade 1 to 5
		Colour fastness to Perspiration	IS 971:1983 (RA2004) ISO 105 E04-2013 AATCC 15:2013	Qualitative Grade 1 to 5
		Colour fastness to water	IS 767:1988 RA 2009 ISO 105-E01-2010 AATCC 107 : 2013	Qualitative Grade 1 to 5
		Colour fastness to Xenon Arc Lamp	AATCC 16-3:2012 (Option-3) ISO:105B02:2013 IS:2454:1989 (RA 2010)	Qualitative Grade 1 to 5
		pH of aqueous extracts	IS: 1390:1983 (RA 2004) ISO 3071-2005 AATCC- 81:2012	2 to 12
		Dimensional Changes (for various categories of fabrics) for soaking in water	IS: 2977:1989 RA2010 other than wool woven & knitted) IS-665-1989 RA 2005 (for fabrics containing wool)	Up to 50%

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		Dimensional changes to Home Laundering	AATCC 135-2014 ISO 6330:2012 ISO:5077:2007 ISO:3759:1994	(-)50% to (+)50%
		Free Formaldehyde	ISO 14184-1-2011	Upto 1000 mg/kg

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MECHANICAL TESTING

I. TEXTILE MATERIALS				
1.	Textiles Yarn	Linear density	IS 1315:1977 (RA 2010) ISO 2060 :1994	5-590 Tex 1 ^s -120 ^s Ne C
		Lea Strength	IS 1671:1977 (RA 2014) ISO 6939:1988	100 N – 2000N (20 lb- 440 lb)
2.	Textiles Yarn & Chords	Strength & elongation single strand	IS 1670:1991 (RA 2012) ISO: 2062-2009	Strength: 1N – 900N (100 g – 90000g) Elongation: 2 % to 250%
		Twist in yarn and direction of twist	IS 832 -Part-1:2011 ISO 2061-2010	Twist :1 to 1870 turns per metre
3.	Textiles Fabric/ Apparel / Made up	Threads per unit length in woven fabrics	IS 1963:1981 (RA 2014) ISO 7211-2:1984	10 to 1500 per dm
		Twist of yarn removed from fabric	IS 832 -Part-1 :2011 ISO 7211-4 –1984	1 to 1870 turns per metre
		Linear density of Thread removed from fabric	TC/ LAB TM-02 Ver.02.2014	5-590 Tex 1-120s Ne C
		Pilling Resistance (Martindale)	ASTM D: 4970-2010	Qualitative Grade 1 to 5
		Tear Strength (Elmendorf)	ASTM D 1424 09 (Ra 2013) ISO: 13937 –1-2000 IS: 6489-1:2011	6400 g

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4.	Textiles Fabric	Breaking Load and elongation-Grab test	IS 1969 :1985 part II (RA 2010) ISO 13934-2-2014	100 N – 2000N 2 to 50%
		Breaking Load and elongation-Strip test	IS 1969:part 1:2009 (RA 2010) ISO 13934-1-2013	100 N – 2000N 2 to 50%
		Tear Strength (Tongue Tear)	ASTM D 2261 – 2011	Upto 1000g
		Length and width of the fabric	IS 1954:1990 (RA 2012) ASTM D: 3773- M2010 ASTM D: 3774-96 (RA 2012)	Width : 1 to 400 cm
5.	Textiles Fabric / Apparel /Made up / Carpets	Mass per Unit Length/ Mass per unit area	TC/ LAB TM-03 Ver.02:2016 IS 1964-2001 (RA 2011) ISO 3801-1983	10 to 1000 g / m ²
6.	Textiles Fabric / Apparel / Made up/ Technical Textiles	Abrasion Resistance (Martindale)	ASTM D: 4966 –2012 ISO 12947- 1-1998 ISO 12947- 2-1998 ISO 12947- 3-1998 ISO 12947- 4-1998	Upto 99999 Weight(g) Grade 1 to 5 Upto 9999 Weight (g) Grade 1 to 5