

**Laboratory** I.I.C.T. Laboratory, Chauri Road, Bhadohi, Uttar Pradesh  
**Accreditation Standard** ISO/IEC 17025: 2005  
**Certificate Number** TC-5279 (in lieu of T-1115, T-1116) **Page 1 of 4**  
**Validity** 01.03.2017 to 28.02.2019 **Last Amended on** 17.03.2017

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.	<b>Fibre &amp; filaments, Yarns &amp; Chords, Finished fabric, Apparels &amp; Garments, Carpets &amp; rugs, Protective Textiles</b>	Quantitative Chemical Analysis- Composition of fibres inclusive of Identification of fibre: i) Protein fibres and other non-protein fibres ii) Polypropylene and polyethylene iii) Polyester with cotton or regenerated cellulose iv) Polyolefin fibres and other fibres v) Viscose rayon, cotton and protein fibres vi) Silk and wool or hair vii) Nylon 6 or Nylon 66 fibres and certain other fibres	IS 2006: 1988 (RA 2013) IS 11870: 1986 (RA 2011) IS 3416: 1988 (RA 2013) IS 9896: 1981 (RA 2010) IS 6504: 1979 (RA 2010) IS 9889: 1988 (RA 2010) IS 2005: 1988 (RA 2013)	1 % to 100 %
		Wool content of woollen textile material	IS 8476: 1977 (RA 2010)	1 % to 100 %
		Colour fastness to organic solvents	IS 688: 1988 (RA 2013)	Qualitative (Grade: 1 to 5)
		Colour fastness to rubbing (Dry & Wet)	IS 766: 1988 (RA 2013) IWS/TM-232, July 2001	Qualitative (Grade: 1 to 5)
		Colour fastness to water	IS/ISO 105 E01: 2010	Qualitative (Grade: 1 to 5)
		pH value of aqueous extracts of textile materials	IS 1390: 1983 (RA 2013)	1 to 14
		Colour fastness to washing	IS/ISO 105 C10: 2006 (Method A, B, C and D)	Qualitative (Grade: 1 to 5)

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		Colour fastness to light	IS 2454: 1985 (RA 2013)	Qualitative (BWS Rating: 1 to 8)
2.	Yarns & Chords, Finished fabric, Apparels & Garments, Carpets & rugs	Colour fastness to rubbing (Organic solvent)	IS 3426: 1982 (RA 2010)	Qualitative (Grade: 1 to 5)
3.	Carpets & rugs	Surface flammability of carpets and rugs	16 CFR Part 1630/1631: 2014	Qualitative
4.	Fibre & filaments	Wool fibre content of raw wool	IS 1349: 1964 (RA 2013)	1 % to 100 %
		Moisture in wool	IS 6637: 1972 (RA 2010)	1 % to 40 %
5.	Fibre & filaments, Yarns & Chords, Finished fabric, Apparels & Garments, Protective Textiles	Non-fibrous matter of fiber mixture	IS 9068: 1979 (RA 2010)	1 % to 20 %

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**MECHANICAL TESTING**

I.	TEXTILE MATERIALS			
1.	Yarns & Chords	Yarn count	IS 681: 2015 (1 <sup>st</sup> method) IS 1315: 1977 (RA 1999) Edition 2.1 (2011) IS 570: 1964 (RA 2014) (1 <sup>st</sup> method)	4 tex to 1000 tex (1 Nm to 220 Nm)
		Yarn twist	IS 832 (Part 1): 2011	40 tpm to 2000 tpm (1 tpi to 50 tpi)
2.	Finished fabric, Apparels & Garments, Protective Textiles	Weight per square/linear meter of fabric	IS 1964: 2001 (RA 2011)	1 gsm to 500 gsm
		Threads per unit length in woven fabric	IS 1963: 1981 (RA 2014) [Method A]	(30 to 1000) threads/dm
3.	Carpets & rugs	Carpet wear & abrasion tester (weight loss method)	IWS/TM-283: 2000	0.1 mg to 120 mg
		Classification of Textile floor covering	IS 11205: 2011	Qualitative
		Textile floor covering - Thickness loss under dynamic loading	BS/ISO 2094: 1999	1 mm to 25 mm
		Effects of small source of ignition on Textile floor covering flammability testing (Hot Metal Nut Method)	BS 4790: 1987 [Method I]	15 mm to 125 mm
		Thickness of machine made floor covering	ISO 1765: 1986	1 mm to 25 mm
		Pile height of floor covering	IS 7877 (Part 4): 1976 (RA 2008) IWS/TM-20: 2000	3 mm to 25 mm

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		Thickness, compression and recovery characteristics of Textile floor covering	BS 4098: 1975 (RA 1982)	Thickness: (1 to 25) mm % Compression & % Thickness Recovery: (1 to 100) %
		Thickness loss after prolonged heavy static loading of textile floor covering/ carpets	ISO 3416: 1986	(0 to 10) mm
		Tuft withdrawal force of carpets	BS 5229: 1975 (RA 1982) ISO 4919: 1978 IS 5884: 1993 (RA 2014) IWS/TM-202: 2001	2 N to 50 N (200 gf to 5000 gf)
		Pile density of Textile floor covering	IS 5641: 1993 (RA 2011) [Annex D]	(10 to 600) gsm/mm
		Knots per square decimeter/ knots per square inch of carpets	IS 7877 (Part 3): 1976 (RA 2008)	(50 to 5000) knots/ square decimeter

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