

Laboratory ICAR-Central Institute for Research on Cotton Technology, Adenwala Road, Matunga, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6904 (in lieu of T-0179 & T-0610)

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Validity 02.03.2018 to 01.03.2020

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/ Fabric	Identification of Textile Fibres	IS 667	Qualitative
		Quantitative Chemical Analysis of mixture of Polyester Fibres with Cotton or Regenerated Cellulose	IS 3416 (Part 1)	1 % to 100 %
		Scouring loss in Grey and Finished Cotton Textile Material	IS 1383	0.2 % to 50 %
		pH Value	IS 1390	1 to 12
		Fastness to Artificial Light (Xenon Lamp)	AATCC 16.3	Qualitative (Grade 1 to Grade 5)
			IS 2454	Qualitative (Grade 1 to Grade 5)
		Colour Fastness to Washing	IS/ISO 105 C10	Qualitative (Grade 1 to Grade 5)
		Determination of colour fastness of textile materials to perspiration	IS/ISO 105 E04	Qualitative (Grade 1 to Grade 5)

Ramprasad R
Convenor

N. Venkateswaran
Program Director

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MECHANICAL TESTING

I.	TEXTILE MATERIALS			
1.	Fibres	Trash content of cotton (Gravimetric trash Analysis)	IS 4871	0.2% to 30%
		Length, length uniformity, Micronaire and Tenacity of Cotton fibres (Zellweger HVI testing)	ASTM D-5876	2.5% span length: 14 mm to 40mm UR: 40% to 60% Mic: 2 units to 8 units Tenacity: ICC 15g/tex to 50g/tex
2.	Yarn	Twist in yarn (TPI)	IS 832 (Part 1)	100 TPM to 2300 TPM (2 TPI to 60 TPI)
		Linear density of yarn (count)	IS 1315	5 tex to 295 tex (2 ^s to 160 ^s) Ne
		Lea Strength parameters of yarn	IS 1671	50 lbs to 490 lbs (10 kg to 50 kg)
		Unevenness of Textile strand	ASTM D-1425	U%: 5 to 30.0
		Imperfections per unit length in yarn (per km)	CIRCOT yt-1/2013	Thin places: 0 to 5000 Thick places: 0 to 5000 Neps : 0 to 5000
3.	Fabric	Threads per unit length in woven fabrics	IS 1963	40 / dm to 600 / dm (10/inch to 150/inch)
		Weight per square meter/ linear meter of fabrics	IS 1964 ASTM D3776	30 g/m ² to 1000 g/m ² 10 g/m ² to 250 g/m ²
		Linear density of threads removed from fabrics	IS 3442	5 tex to 295 tex (2 ^s to 160 ^s) Ne

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		Twist of yarns (TPI) Removed from fabrics	IS 832 (Part 1)	100 TPM to 2300 TPM (2 TPI to 60 TPI)
		Breaking strength (Raveled Strip)	IS 1969	Strength: 50 N to 5000 N (5 kg to 500 kg)
		Dimensional changes (other than wool)	IS 2977	(-) 0.25 % to 25 %
		Length and Width of materials	IS 1954	10 cm to 500 cm

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