Laboratory	Textile Testing Laboratory, Central Silk Technological Research Institute, Central Silk Board, Madivala, BTM Layout, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-5703 Page 1 of 4		
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SI.	Product /	Specific Test	Test Method Specification	Range of Testing /
	Material of Test	Performed	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

I.	TEXTILE (WOVEN & NON WOVEN)			
1.	Fibre, Yarn and Fabric	CF. to Light - Xenon (Artificial)	IS-2454	Qualitative Rating1 to 8
		Colour fastness to Wash Test No.1 TO 5	IS/ISO 105-C10	Qualitative 1 to 5 grade
		Colour fastness to Rubbing	IS 766	Qualitative 1 to 5 grade
		Colour fastness to Perspiration	IS 971	Qualitative 1 to 5 grade
		Colour fastness to Dry cleaning	IS-4802	Qualitative 1 to 5 grade
		Colour fastness to Laundering, home & Commercial accelerated	AATCC-61(1Ato 5A) IS 13025	Qualitative 1 to 5 grade
		Fibre Identification	AATCC-20	Qualitative
		Blend Analysis	AATCC-20A IS 11195	1 to 100%
		pH of aqueous extracts	IS-1390	1 to 14
		Scouring loss of silk (Degumming)	IS-1582	1% to 30%
		Dimensional Stability of Woven Fabrics except protein	IS-2977	Upto 15%
		Dimensional Stability of Silk Woven Fabrics	IS-3561	Upto 15%

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			performed	

MECHANICAL TESTING

I.	TEXTILE MATE	RIALS		
1.	Raw Silk	Winding Breaks	IS 15090(Part 4)	0 to 50
			ISA Chapter II-Article 3,	
			TTL (PT)-TM-01.2	
		Size Test	IS 15090(Part 5 & 6)	1 to 90 den
			ISA –Chapter II –	
			Article 4, 5 & 6, T	
		Sorialana Toot	TL (PT)-TM-01.3 IS 15090(Part 7)	Evenness L (strings):>10
		Seriplane Test	ISA - Chapter II-Article 7,	Evenness I (stripes):>10
			TTL (PT)-TM-01.4	Evenness II (stripes):≥0 Evenness III (stripes):≥0
			IS 15090(Part 8)	Cleanness: Upto 100 %
			ISA - Chapter II-Article 8,	Cleanness. Opto 100 %
			TTL (PT)-TM-01.5	
				Neatness: 10 to 100 %
			IS 15090(Part 9)	
			ISA - Chapter II-Article 9,	Low Neatness: 10 to 100 %
			TTL (PT)-TM-01.6	
		Serigraph Test	IS 15090(Part 10)	Tenacity: Upto 5 gf/den
			ISA - Chapter II-Article 10,	
			TTL (PT)-TM-01.7	
				Elongation: Upto 100 %
		Cohesion	IS 15090(Part 11)	10 to 300 strokes
			ISA - Chapter II-Article 11,	
			TTL (PT)-TM-01.8	
		Moisture Test & Conditioned Mass	IS 15090 (Part 3)	Upto 30 %

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Dupion Silk	Special Defect Test	IS 15825 (Part 3)	Actual number of defects as counted
		Winding Breaks	IS 15825(Part 4)	0 to 50
		Size Test	IS 15825(Part 5)	45D to 450 D
3.	Fibre	Moisture Test	Based on IS 199 & IS 15090(Part 3)	Upto 30 %
		Fibre Length	ASTM D 5103	1 to 30 cm
4.	Yarn	Twist Test	IS 832,	0 to 4000 TPM
			ASTM D 1422M	
			ASTM D 1423	
		Tensile Strength &	IS 1670	Load: - 0.5 N to 4900 N
		Elongation Test (Single Yarn)	IS 7703 (Part 2)	Elongation: - Upto 100 %
			ASTM D 2256/D2256M)	
		Tensile Strength Test	IS 1671	Load : - 0.5 N to 4900 N
		(Skein form)	ASTM D 1578	
		Linear Density	IS 1315	1D to 450 D
			IS 7703 (Part 1)	
			ASTM D 1907	
		Moisture Content	IS 7703 (Part 3)	Upto 30 %
		Identification of Type of Yarn	TTL (PT)-TM-04	Qualitative
5.	Fabric	Crimp / Count Of Yarn	IS 3442	0 to 40 % / 1 to 900 den
			ASTM D 3883	
		Twist	IS 832	20TPM to 4000TPM
			ASTM D 1422	
			ASTM D 1423	
		Crease Recovery	IS 4681 / AATCC 66	10° to 180°
		Stiffness	ASTM D 1388 - 14e1	0.1 to 10 cm bending length
		Tensile Strength &	IS 1969	Load: -0.5 N to 4900 N
		Elongation	ASTM D 5034	Elongation: - Upto 200 %
			ASTM D 5035	

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Abrasion Resistance	IS 12673	10 to 10,000 rubs
		Width	ASTM D 4966	
			IS 1954	1 to 200 cm
			ASTM D 3774	
		Length	IS 1954	Upto 100 m
			ASTM D 3773/D3773M	
		Thread Density / Fabric	IS 1963	Upto 500/cm
		Count	ASTM D 3775	
			ASTM D 3887	
		Mass (Weight)	IS 1964	Upto 1500 g/m ²
			IS 2387	
			ASTM D 3776/D3776M – 09a	
		Pilling Resistance	IS 10971	Grades 1 to 5
		Cover Factor	TTL (PT)-TM-06	Upto 28
		Percentage By Weight	TTL (PT)-TM-03	Upto 100%
		Weave Analysis	TTL (PT)-TM-05	Qualitative
6.	Twisted / Thrown	Twist, CV%, Deviation	ISA Thrown Silk 1997 / 1999	Upto 3600 TPM
	Silk	Size, CV % 200 m & 50m		Upto 300 D
		CV tenacity %		Upto 5 g/ D
		Elongation % & CV %		Upto 30 %