Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-7676	Page 1 of 7
Validity	06.08.2018 to 05.08.2020	Last Amended on

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
	••••••		performed	

CHEMICAL TESTING

Ι.	TEXTILE (WOVEN	I & NON WOVEN)		
1.	Fibres, Yarn	Moisture content	IS 199:1989 (RA 2010)	Upto 50%
2.	Textiles	Identification of fibres	IS 667:1981 (RA 2010) AATCC 20 :2013	Qualitative
		Quantitative Chemical Analysis of Binary Mixtures	(Silk and wool) IS 9889:1988 (RA 2010) ISO 1833-18:2006	0.1 % to 100 %
		Quantitative Chemical Analysis of Binary Mixtures	(Cotton + Viscose) IS 1889 (Part 4): 1979 (RA 2010) ISO 1833-5:2006	0.1 % to 100 %
		Quantitative Chemical Analysis of Binary Mixtures:	(Nylon + Others) IS 6503:1998 (RA 2010) IS 2005:1988 (RA 2013) ISO 1833-7:2017	0.1 % to 100 %
		Quantitative Chemical Analysis of Binary Mixtures:	(Protein fibre + Others) IS 2006:1988 (RA 2010) ISO 1833-4:2017	0.1 % to 100 %
		Quantitative Chemical Analysis of Binary Mixtures	(Polyester + Cotton) and (Polyester + Viscose) IS 3416 (Part 1): 1988 (RA 2008) ISO 1833-11:2017	0.1 % to 100 %
		Quantitative Chemical Analysis of Binary Mixtures:	(Acrylic + Others) IS 3421:1988 (RA 2010) ISO 1833-12:2006	0.1 % to 100 %
		Quantitative Chemical Analysis of Binary Mixtures	(Polyolefin + others) IS 9896:1981 (RA 2008)	0.1 % to 100 %
		Quantitative analysis of mixtures	AATCC 20 A:2014	0.1 % to 100 %
l		% Composition by	TC/LAB-TM-15/MSP 5.4	0.1 % to 100 %

Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu
Accreditation Standard	ISO/IEC 17025: 2005

Certificate Number TC-7676

Validity 06.08.2018 to 05.08.2020

Page 2 of 7

Last Amended on --

SI. Product / Material **Specific Test Test Method Specification** Range of Testing / of Test Performed against which tests are Limits of Detection performed physical separation Issue 4 dated 01.08.05 AATCC 20 A:2017 Colour fastness to IS / ISO 105 C10:2006 Qualitative washing ISO 105 C10:2006 (Grade 1 to 5) BSEN ISO 105-C10:2007 ISO 105 C06-2010 Colour Fastness to Qualitative BS EN ISO 105 C06:2010 Laundering (Grade 1 to 5) AATCC 61-1A:2013 Colour fastness to dry IS 4802:1988 (RA 2010) Qualitative cleaning ISO 105-D01:2010 (Grade 1 to 5) AATCC 132:2013 Colour fastness to AATCC 16.3 (Option 2): 2014 Grade 1 to 5 IS 2454:1985 (RA 2010) Xenon Arc Lamp Class 1 to 8 ISO 105 B02:2014, BS EN ISO 105 B02: 2014 Colour fastness to IS 688:1998 (RA 2009) Qualitative organic solvents ISO 105-X05:1994 (Grade 1 to 5) Colour fastness to ISO 105-D02:1993 Qualitative rubbing with organic (RA 2016) (Grade 1 to 5) solvent Colour fastness to IS 766:1988 (RA 2016) Qualitative AATCC 8 :2016 rubbing / Crocking (Grade 1 to 5) ISO 105 – X 12 -2017 Colour fastness to IS 971:1983 (RA 2009) Qualitative perspiration BSEN ISO 105- E-04 :2013 (Grade 1 to 5) ISO 105 E04:2013 AATCC 15:2013 DIN EN ISO 105 E04:2013 Colour fastness to IS 767:1988 (RA 2009) Qualitative Water ISO 105- E01:2013 (Grade 1 to 5) AATCC-107:2013 BS EN ISO 105- E01:2013 Colour fastness to IS 762:1988 (RA 2009) Qualitative Bleaching ISO 105 N01:1993 (Grade 1 to 5)

Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-7676	Page 3 of 7
Validity	06.08.2018 to 05.08.2020	Last Amended on

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(Hypochlorite)		
		Colour fastness to Sea	IS 690:1988 (RA 2009)	Qualitative
		water	ISO 105 E02 :2013	(Grade 1 to 5)
		Colour fastness to	DIN 53160-1:2010	Qualitative
		artificial saliva		(Grade 1 to 5)
		pH of aqueous extract	IS 1390:1983 (RA 2009)	1 to 14
			ISO 3071:2005	
		Disconsistent Obergene	AATCC 81:2016	
		Dimensional Changes	15 2977:1989 (RA 2010)	(-)50 % to 50 %
		IOI SOAKING IN WALEI	knitted)	
		Dimensional Changes	AATCC 135 :2015	Upto 50%
		to Home Laundering	ISO 3759 :2011,	
			BS EN 25077: 1994	
			DIN EN ISO 6330 :2012,	
			ISO 5077 : 2007	
		Skewness change in	AATCC-179;2017	Upto 20 %
		fabric and garments	ISO 16322 : 2005	
		Smoothness	AATCC 124:2014	Qualitative
		appearance		(Grade 1 to 5)
		Barium Activity	AATCC 89:2017	100 to 180
11.	HAZARDOUS & RE			
1.	Textiles&	Presence of Poly Vinyl	In House Method	Qualitative
	Accessories	Chloride	IC /LAB/IM 16/MSP 5.4 Issue No. 4, Dt. 01.08.2005	
2.	Textile	Screening test for	PD CR 12471:2002	Qualitative
	Accessories (Like	Nickel Release		
	Zips, Buttons			
3	Toxtilos	Free & hydrolyzed	ISO 14184-1 -2011	16 mg/kg to 3500 mg/kg
0.	i catilos	Formaldehyde	BS EN ISO 14184-1-2011	ro mg/kg to bood mg/kg

Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-7676	Page 4 of 7
Validity	06.08.2018 to 05.08.2020	Last Amended on

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

١.	TEXTILE MATERIALS			
1.	Yarn	Linear density	IS 1315:1977 (RA 2010) ISO 2060:1994 ASTM D 1907M:2012	5 to 590 tex 1 ^S Ne to 120 ^S Ne
		Lea Strength	IS 1671:1977 (RA 2014) ASTM D 1578:2016	80 N to 2200 N (20 lb to 485 lb)
		Twist	IS 832 (Part 1 & Part 2): 2011 ASTM D 1422:2013 ASTM D 1423:2016 ISO 2061:2015	400TPM to 2300 TPM (10 TPI to 60 TPI)
		Unevenness of Textile strands-Capacitance method (U%)	ASTM D 1425-M :2014 ISO 16549:2004	1 to 29
		Imperfections per unit Length	ISO 16549:2004	0 to 9999/km.
		Grading spun yarns for appearance	ASTM D 2255-M:2009(2013)	Grade A ⁺ to Below D Index 60 to 130
		 i) Balance of twist ii) Single thread strength of sewing thread 	ASTM D 204:2002(2016)e1	i) 0 to 50 ii) 1 N to 30 N 10 gf to 3 kgf
2.	Yarn & Chords	Breaking Load and elongation at break of single thread	IS 1670:1991 (RA 2012) ASTM D: 2256-M:2010 ISO 2062:2009	1 N to 90 N 100 gf to 9 kgf 2 % to 50 %
3.	Yarn from Fabric	Twist of yarn removed from fabric	IS 832 (Part 1&2):2011 ISO 7211-4-1984	400TPM to 2300 TPM (10TPI to 60 TPI)
4.	Fabric/ Garments and Apparel/ Made up	Threads per unit length in woven fabrics	IS 1963:2004 (RA 2008) ASTM D: 3775 :2017 ISO 7211-2 -1984 BSEN 1049–2-1994	39/dm to 1000 /dm

Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu
Accreditation Standard	ISO/IEC 17025: 2005

Page 5 of 7

Certificate Number TC-7676

SI.

¦-----

Validity 06.08.2018 to 05.08.2020

Last Amended on --**Product / Material Specific Test Test Method Specification** Range of Testing / of Test Performed against which tests are Limits of Detection performed Breaking Load and IS 1969-2:2010 100 N to 2000 N

elongation - Grab	ISO 139-2:1999 ISO 13934-2 -2014 ASTM D 5034:2009 (2013)	2 % to 50 %
Breaking Load and elongation - Strip	IS 1969-1:2009/ ISO 13934- 1:1999 ISO 13934-1: 2013 ASTM D: 5035 :2011(2015)	100 N to 2000 N 2 % to 50 %
Linear density of yarns removed from fabric	TC/ LAB TM-02/MSP 5.4 Issue 4 dated 01.08.2005	5 Tex to 590 Tex 1 ^s Ne to 120 ^s Ne
Mass per unit area/unit length of fabrics (Weighing Method)	TC/ LAB TM-03/MSP 5.4 Issue 4 dated 01.08.2005 IS 1964 :2001-Method A (RA 2010) ISO 3801:1977-Method 5 BSEN 12127:1998 Clause 8.3 ASTM D 3776-M: 2017 Option C	25 gsm to 1000 gsm
Length and width of woven fabrics Length Width	IS 1954 : 1990 (RA 2007) ASTM D: 3773-M: 2014 ASTM D: 3774: 2016	Upto 100 m Upto 300 cm
Abrasion Resistance (Martindale method)	ASTM D: 4966 : 2012 (Option 01, 2 3) ISO 12947- 2 -2016 (Specimen breakdown) ISO 12947- 3 -1999 (Mass loss) ISO 12947- 4 -1998 (Appearance change)	1000 to 99999 rubs Mass loss 0.3 % to 40.0 % Qualitative (Grade 1 to 5)
Pilling Resistance and other Related Surface Changes –Martindale Tester	ASTM D: 4970-M:2016	Qualitative (Grade 1 to 5)

Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu
Accreditation Standard	ISO/IEC 17025: 2005

Page 6 of 7

Last Amended on --

Certificate Number TC-7676

Validity 06.08.2018 to 05.08.2020

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fabric propensity to surface fuzzing and to pilling (Modified Martindale Method)	EN ISO 12945-2-2000	Qualitative (Grade 1 to 5)
		Fabric propensity to surface fuzzing and to pilling (Pilling box method)	BS EN ISO 12945-1-2001 ISO 12945-1-2000	Qualitative (Grade 1 to 5)
		Pilling Resistance of Fabrics	IS 10971:2011	Qualitative (Grade 1 to 5)
		Pilling Resistance and other Related Surface Changes –Random Tumble Pilling Tester	ASTM D 3512-M:2010	Qualitative (Grade 1 to 5)
		Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant Rate of Extension Tensile Testing Machine)	ASTM D 2261:2013	50N to 900 N 1 kgf to 9 kgf
		Tear Force using Ballitic Pendulum Method (Elmendorf)	IS 6489-1:2011 ISO 13937-1-2000 ISO: 13937-1-2000	1.6N to 58 N 0.16kgf to 5.8kgf
		Tearing Strength of Fabrics by Falling Pendulum (Elmendorf – Type) Apparatus	ASTM D 1424 :2009(2013)	1.6N to 58 N 0.16kgf to 5.8kgf
		Tearing Strength of Fabrics by Trapezoid Procedure	ASTM D 5587:2015	10N to 90 N 1 kgf to 9 kgf
		Tear Force of wing- shaped test specimens (Single tear method)	ISO 13937-3-2000	10N to 90 N 1 kgf to 9 kgf

Laboratory	Regional Laboratory, Textiles Committee, 8 & 9, Thiru Vi Ka Nagar, 1st Street, College Road, Tirupur, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-7676	Page 7 of 7	
Validity	06.08.2018 to 05.08.2020	Last Amended on	

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		The resistance of tearing of woven fabrics by the wing-rip technique	BS 4303:1968	10N to 90 N 1 kgf to 9 kgf
		Slippage resistance of yarns at a seam in woven fabrics	BS 3320:1988 ISO 13936-1:2004 (Fixed seam opening metnod) ISO 13936-2:2004 (Fixed load method) ISO 13935-2:2014	10 N to 200 N 1 kgf to 20 kgf
		Maximum force to seam rupture using the grab method	ISO 13935-2:2014	10 N to 200 N 1 kgf to 20 kgf
		Flammability (Inclined)	IS 11871:1986 (RA 2004)	Upto 300 s