

Laboratory TUV SUD South Asia Pvt. Ltd., 106/2A, Nehru Street, 15,
 Velampalayam, Tirupur, Tamil Nadu
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-5878 (in lieu of T-1302, T-1303) **Page 1 of 18**
Validity 26.06.2017 to 25.06.2019 **Last Amended on 25.07.2018**

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.	TEXTILES			
1.	Fabrics (Woven), Garment & Apparels	Colour fastness to domestic and commercial laundering	ISO 105 C 06	Qualitative (Grade 1-5)
		Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 C 08	
		Colour fastness to domestic and commercial laundering -- Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 C 09	
		Colour fastness to washing with soap or soap and soda	ISO 105-C10	
		Colour Fastness to Laundering: Accelerated.	AATCC 61	
		Colour fastness to washing	BS EN ISO 105 : C06, C08,C10	
		Colour fastness to washing	GB/T/3921	
		Colour fastness to Rubbing	ISO 105 X12	

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		Colour Fastness to Crocking	AATCC 8	
		Colour fastness to Rubbing	BS EN ISO 105 X 12	
		Colour fastness to Rubbing	GB/T 3920	Qualitative (Grade 1-5)
		Colour fastness to Water	ISO 105 E01 AATCC 107 BS EN ISO 105 E 01 GB/T/5713	Qualitative (Grade 1-5)
		Colour fastness to Perspiration	ISO 105 E04 AATCC 15 BS EN ISO 105 E 04 GB/T3922	Qualitative (Grade 1-5)
		Colour fastness to sea water	ISO 105 E02 AATCC 106 BS EN ISO 105 E 02	Qualitative (Grade 1-5)
		Colour fastness to Chlorinated Water	ISO 105 E03 BS EN ISO 105 E 03	Qualitative (Grade 1-5)
		Colour Fastness To Dry Cleaning	ISO 105 D 01 AATCC 132 BS EN ISO 105 D 01	Qualitative (Grade 1-5)
		Colour fastness to organic solvent	ISO 105 X05 BS EN ISO 105 X 05	Qualitative (Grade 1-5)
		Colorfastness to Saliva; colorfastness of articles in common use Resistance to artificial saliva	DIN 53160-1	Qualitative (Grade 1-5)
		Colourfastness of articles for common use Test with artificial sweat	DIN 53160-2	Qualitative (Grade 1-5)
		Colourfastness to Saliva	GB/T 18886	Qualitative (Grade 1-5)

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		Colour fastness to spotting : Acid	ISO 105 E05 AATCC 6 BS EN ISO 105 E 05	Qualitative (Grade 1-5)
		Colour fastness to spotting : Alkali	ISO 105 E06 AATCC 6 BS EN ISO 105 E06	Qualitative (Grade 1-5)
		Colour fastness to spotting : Water	ISO 105 E07 AATCC 104 BS EN ISO 105 E 07	Qualitative (Grade 1-5)
		Colour fastness to light	ISO 105 B 02 BS EN 105 B 02	Qualitative (BWS Rating 1-8)
		Colour fastness to light of textiles wetted with artificial perspiration	ISO 105 B07	
		Assessment of the potential to Phenolic yellowing of materials	ISO 105 X 18	Qualitative (Grade 1-5)
		Determination of pH of aqueous extract	ISO 3071	1 to 14
		pH of the water-Extract from Wet Process Textiles	AATCC 81-	
		Determination of pH of aqueous extract	BS EN 1413	
		Determination of pH of aqueous extract	GB 7573	
		Fiber Composition	ISO 1833 (Part 1 to 8,11,12,16 &18)	1% to 100%
		Fiber Analysis: Qualitative	AATCC 20	
		Fiber Analysis: Quantitative	AATCC 20A	
		Fiber Composition	BS 4407	

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		Formaldehyde release from Fabric Test Method for resin finished Textiles	AATCC 112 ISO 14184 - 2 GB/T 2912.2 JIS L 1041 PART A,B DIN EN 717-3	10 mg/kg to 1000 mg/kg
		Determination of Formaldehyde	ISO 14184 - 1 GB/T 2912.1 LFGB 82.02-1	
		Domestic washing and drying procedures for textile testing	ISO 6330 BS EN ISO 6330	0 % to 80 %
		Dimensional Changes of Fabrics after Home Laundering	AATCC 135	
		Dimensional Changes of Garment after Home Laundering	AATCC 150	
		Appearance After Washing	AATCC 143 ISO 6330 AATCC 124	Qualitative
		Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering	AATCC 179 BS 2819	0 % to 20 %
		Spirality after laundering - Percentage of wale spirality change in knitted garments	ISO 16322 -1	
		Spirality after laundering	ISO 16322-2	
		Spirality after laundering- Retention of Creases in Fabrics after Repeated Home Laundering	ISO 16322-3 AATCC 88C	Qualitative (Grade 1-5)

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		Appearance of creases in fabrics after cleansing	ISO 7769	
		Smoothness of Seams in Fabrics after Repeated Home Laundering	AATCC 88B	Qualitative (Grade 1-5)
		Smoothness appearance of fabrics after cleansing	ISO 7768	
		Absorbency	AATCC 79	0.2 sec to 600 sec
		Print Durability	SDC Publication, Appendix 2	Qualitative (Grade 1-5)
		Resistance to surface wetting (spray test)	ISO 4920	0% to 100%
		Water Repellency - Spray test	AATCC 22	
		Dimensional Stability to steam	BS 4323	0% to 40%
		Nickel spot	BS PD CR 12471	NA
		Odour	GB/T 18401 section 6.7 LAB_P_SOP_134 DIN 10955 SNV 195651	NA
		Colorfastness to Light: Xenon-Arc	AATCC 16.3	Qualitative (Grade 1-5)
		Flammability of Clothing Textiles	16 CFR 1610 ASTM D 1230	0 Sec to 99 Sec
II.	HAZARDOUS AND RESTRICTED CHEMICALS			
1.	Textiles, its accessories, components, Dyes, Pigments, Auxiliaries, and related products.	Extractable Heavy Metals	GTP_Chem_CPS_25182B BS EN 16711 Part 2	
		Antimony		0.5 mg/kg to 300 mg/kg
		Arsenic		0.1 mg/kg to 500 mg/kg
		Lead		0.1 mg/kg to 500 mg/kg
		Cadmium		0.05 mg/kg to 500 mg/kg

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		Copper		2.5 mg/kg to 500 mg/kg
		Cobalt		0.10 mg/kg to 500 mg/kg
		Chromium		0.1 mg/kg to 500 mg/kg
		Nickel		0.1 mg/kg to 500 mg/kg
		Mercury		0.01 mg/kg to 100 mg/kg
		Migration of certain elements	EN 71 part 3 ASTM F 963 (4.3.5.2) - Table 1 & 2)	
		Antimony		2 mg/kg to 700 mg/kg
		Arsenic		2 mg/kg to 500 mg/kg
		Lead		2 mg/kg to 500 mg/kg
		Cadmium		2 mg/kg to 500 mg/kg
		Chromium		2 mg/kg to 500 mg/kg
		Mercury		2 mg/kg to 250 mg/kg
		Barium		2 mg/kg to 60000 mg/kg
		Selenium		2 mg/kg to 500 mg/kg
		Aluminum		2 mg/kg to 80000 mg/kg
		Cobalt		2 mg/kg to 500 mg/kg
		Copper		2 mg/kg to 8000 mg/kg
		Manganese		2 mg/kg to 20000 mg/kg
		Nickel		2 mg/kg to 1000 mg/kg
		Strontium		2 mg/kg to 60000 mg/kg
		Tin		2 mg/kg to 20000 mg/kg
		Zinc		2 mg/kg to 50000 mg/kg
		Boron		2 mg/kg to 20000 mg/kg
		Organic Tin		2 mg/kg to 100 mg/kg
		Total Metal content	LAB_P_SOP_160	
		Aluminum	BS EN 16711 Part 1	2.0 mg/kg to 1000 mg/kg
		Arsenic		2.0 mg/kg to 1000 mg/kg
		Antimony		2.0 mg/kg to 1000 mg/kg
		Cobalt		2.0 mg/kg to 1000 mg/kg
		Barium		2.0 mg/kg to 1000 mg/kg
		Molybdenum		2.0 mg/kg to 1000 mg/kg
		Zirconium		2.0 mg/kg to 1000 mg/kg

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		Sodium		2.0 mg/kg to 1000 mg/kg
		Potassium		2.0 mg/kg to 1000 mg/kg
		Chromium		2.0 mg/kg to 1000 mg/kg
		Strontium		2.0 mg/kg to 1000 mg/kg
		Tin		2.0 mg/kg to 1000 mg/kg
		Lead		2.0 mg/kg to 1000 mg/kg
		Cadmium		2.0 mg/kg to 1000 mg/kg
		Zinc		2.0 mg/kg to 1000 mg/kg
		Boron		2.0 mg/kg to 1000 mg/kg
		Copper		2.0 mg/kg to 1000 mg/kg
		Nickel		2.0 mg/kg to 1000 mg/kg
		Mercury		2.0 mg/kg to 1000 mg/kg
		Manganese		2.0 mg/kg to 1000 mg/kg
		Chlorinated Phenols	GTP_Chem_CPS_25119B	
		2-chlorophenol	LFGB 82.02 part-8	0.01 mg/kg to 100 mg/kg
		3-Chlorophenol	ISO 17070	0.01 mg/kg to 100 mg/kg
		4-Chlorophenol	GB/T 18414.1	0.01 mg/kg to 100 mg/kg
		2,3-Dichlorophenol		0.01 mg/kg to 100 mg/kg
		2,4-Dichlorophenol		0.01 mg/kg to 100 mg/kg
		2,5-Dichlorophenol		0.01 mg/kg to 100 mg/kg
		2,6-Dichlorophenol		0.01 mg/kg to 100 mg/kg
		3,4-Dichlorophenol		0.01 mg/kg to 100 mg/kg
		3,5-Dichlorophenol		0.01 mg/kg to 100 mg/kg
		2,3,4- Trichlorophenol		0.01 mg/kg to 100 mg/kg
		2,3,5-Trichlorophenol		0.01 mg/kg to 100 mg/kg
		2,3,6-Trichlorophenol		0.01 mg/kg to 100 mg/kg
		2,4,5- Trichlorophenol		0.01 mg/kg to 100 mg/kg
		2,4,6- Trichlorophenol		0.01 mg/kg to 100 mg/kg
		3,4,5- Trichlorophenol		0.01 mg/kg to 100 mg/kg
		2,3,4,5-Tetrachlorophenol		0.01 mg/kg to 100 mg/kg
		2,3,5,6-Tetrachlorophenol		0.01 mg/kg to 100 mg/kg
		2,3,4,6-Tetrachlorophenol		0.01 mg/kg to 100 mg/kg
		Pentachlorophenol		0.01 mg/kg to 100 mg/kg

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		o-Phenyl phenol		0.01 mg/kg to 100 mg/kg
		Banned Aryl Amines	GTP_Chem_CPS_25103B	
		O-Toluidine	GTP_Chem_CPS_25104B	5 mg/kg to 100 mg/kg
		3,3 Dimethyl benzidine	LFGB 82.02 part 2	5 mg/kg to 100 mg/kg
		2 Methoxy 5 methyl aniline (p-Cresidine)	LFGB 82.02 part 4	5 mg/kg to 100 mg/kg
		3,3' Dichloro benzidine	EN -14362 part 1	
		4 Chloro aniline	EN -14362 part 3	5 mg/kg to 100 mg/kg
		2,4,5 Trimethyl aniline	LFGB 82.02 part 9	5 mg/kg to 100 mg/kg
		4,4 Diamino 3,3, dimethyl diphenyl Methane	GB/T 17592	5 mg/kg to 100 mg/kg
		4 Amino azo benzene	GB/T 23344	5 mg/kg to 100 mg/kg
		4 Amino phenylthio ether (4,4'-THIODIANILINE)		5 mg/kg to 100 mg/kg
		4 Amino phenyl ether (.p,p'-Oxydianiline)		5 mg/kg to 100 mg/kg
		3,3 Dimethoxy benzidine		5 mg/kg to 100 mg/kg
		4,4' Benzidine		5 mg/kg to 100 mg/kg
		Bis 4 (amino phenyl) methane(DDM)		5 mg/kg to 100 mg/kg
		2 Anisidine		5 mg/kg to 100 mg/kg
		p-phenylene diamine		5 mg/kg to 100 mg/kg
		4 Amino 2' 3 Dimethyl azo benzene		5 mg/kg to 100 mg/kg
		4 Amino bi phenyl		5 mg/kg to 100 mg/kg
		4 chloro 2 methyl aniline		5 mg/kg to 100 mg/kg
		2,4 Diamino toluene		5 mg/kg to 100 mg/kg
		4,4 Methylene bis (2 chloroaniline)(MOCA)		5 mg/kg to 100 mg/kg
		2 Naphthylamine		5 mg/kg to 100 mg/kg
		2 Amino 4 nitro toluene		5 mg/kg to 100 mg/kg
		2,4-Xylidine		5 mg/kg to 100 mg/kg
		2,6-Xylidine		5 mg/kg to 100 mg/kg

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		2,4-Diaminoanisole		5 mg/kg to 100 mg/kg
		Aniline		5 mg/kg to 100 mg/kg
		Carcinogenic Dyes & Allergenic Dyes	GTP_Chem_CPS 25167B DIN 54231	0.5 mg/L to 10 mg/L (7.5 mg/kg to 150 mg/kg)
		Disperse blue-106	DIN EN ISO 16373-2	0.5 mg/L to 10 mg/L
		Disperse orange-37/76/59		0.5 mg/L to 10 mg/L
		Disperse blue-124		0.5 mg/L to 10 mg/L
		Disperse orange-1		0.5 mg/L to 10 mg/L
		Disperse orange11		0.5 mg/L to 10 mg/L
		Basic violet-14		0.5 mg/L to 10 mg/L
		Direct black-38		0.5 mg/L to 10 mg/L
		Direct red -28		0.5 mg/L to 10 mg/L
		Acid red -26		0.5 mg/L to 10 mg/L
		Basic red- 9		0.5 mg/L to 10 mg/L
		Disperse blue-102		0.5 mg/L to 10 mg/L
		Disperse blue-7		0.5 mg/L to 10 mg/L
		Disperse blue-3		0.5 mg/L to 10 mg/L
		Disperse orange -3		0.5 mg/L to 10 mg/L
		Disperse yellow-49		0.5 mg/L to 10 mg/L
		Disperse yellow-1		0.5 mg/L to 10 mg/L
		Disperse orange149		0.5 mg/L to 10 mg/L
		Disperse yellow-3		0.5 mg/L to 10 mg/L
		Disperse red- 17		0.5 mg/L to 10 mg/L
		Disperse red- 1		0.5 mg/L to 10 mg/L
		Disperse red-11		0.5 mg/L to 10 mg/L
		Disperse yellow-23		0.5 mg/L to 10 mg/L
		Disperse blue 26		0.5 mg/L to 10 mg/L
		Disperse yellow-9		0.5 mg/L to 10 mg/L
		Disperse yellow-39		0.5 mg/L to 10 mg/L
		Disperse yellow -7		0.5 mg/L to 10 mg/L
		Disperse brown-1		0.5 mg/L to 10 mg/L
		Disperse blue -35		0.5 mg/L to 10 mg/L

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		Disperse blue -1		0.5 mg/L to 10 mg/L
		Direct Blue -6		0.5 mg/L to 10 mg/L
		Disperse orange 61		0.5 mg/L to 10 mg/L
		Acid red 114		0.5 mg/L to 10 mg/L
		solvent yellow 1		0.5 mg/L to 10 mg/L
		Solvent yellow 2		0.5 mg/L to 10 mg/L
		Solvent yellow 3		0.5 mg/L to 10 mg/L
		Naphtol AS		0.5 mg/L to 10 mg/L
		Acid violet-49		0.5 mg/L to 10 mg/L
		Blue Colorant (Navy Blue)	GTP_Chem_CPS_25167B DIN 54231 DIN EN ISO 16373-2	1.0 mg/L to 500 mg/L
		Phthalate Esters	GTP_Chem_CPS_25175B	
		Di ethyl phthalate	EN 14372	25 mg/kg to 10000 mg/kg
		Di N-Octyl phthalate	ISO-14389	25 mg/kg to 10000 mg/kg
		Di iso nonyl phthalate	CPSC-CH-C-1001-09.4	25 mg/kg to 10000 mg/kg
		Benzyl butyl phthalate	ASTM F 963-17 (4.3.8)	25 mg/kg to 10000 mg/kg
		Di Butyl phthalate		25 mg/kg to 10000 mg/kg
		Di iso decyl phthalate		25 mg/kg to 10000 mg/kg
		Bis (2 Ethyl hexyl) phthalate		25 mg/kg to 10000 mg/kg
		Bis-iso-pentylphthalates		25 mg/kg to 10000 mg/kg
		N-pentyl-isopentyl ester		25 mg/kg to 10000 mg/kg
		Dicycloexyl phthalates		25 mg/kg to 10000 mg/kg
		Dipentyl phthalates		25 mg/kg to 10000 mg/kg
		Bis-methoxy ethyl phthalates		25 mg/kg to 10000 mg/kg
		Di iso butyl phthalates		25 mg/kg to 10000 mg/kg
		1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters		25 mg/kg to 10000 mg/kg

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		Diisononyl 1,2-Cyclohexane dicarboxylic acid		25 mg/kg to 10000 mg/kg
		1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich		25 mg/kg to 10000 mg/kg
		Di-n hexylphthalate		25 mg/kg to 10000 mg/kg
		Dimethyl phthalate		25 mg/kg to 10000 mg/kg
		Di Decyl Phtalates (DDP)		25 mg/kg to 10000 mg/kg
		Di-n-propyl phthalate (DPrP)		25 mg/kg to 10000 mg/kg
		Di-iso-heptyl phthalate		25 mg/kg to 10000 mg/kg
		Di-iso-hexylphthalate		25 mg/kg to 10000 mg/kg
		Diisooctyl phthalate (DIOP)		25 mg/kg to 10000 mg/kg
		Di-2-propyl heptyl phthalate (DPHP)		25 mg/kg to 10000 mg/kg
		Chlorinated organic careers Chlorinated benzenes and Toluenes	GTP_Chem_CPS_25105B DIN 54232	
		1,2-dichlorobenzene		0.1 mg/kg to 100 mg/kg
		1,3-dichlorobenzene		0.1 mg/kg to 100 mg/kg
		1,4-dichlorobenzene		0.1 mg/kg to 100 mg/kg
		1,2,3-trichlorobenzene		0.1 mg/kg to 100 mg/kg
		1,2,4-trichlorobenzene		0.1 mg/kg to 100 mg/kg
		1,3,5-trichlorobenzene		0.1 mg/kg to 100 mg/kg
		1,2,3,4-tetrachlorobenzene		0.1 mg/kg to 100 mg/kg
		1,2,3,5-tetrachlorobenzene		0.1 mg/kg to 100 mg/kg
		1,2,4,5-tetrachlorobenzene		0.1 mg/kg to 100 mg/kg

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		Penta chlorobenzene		0.1 mg/kg to 100 mg/kg
		Hexa chlorobenzene		0.1 mg/kg to 100 mg/kg
		2-chlorotoluene		0.1 mg/kg to 100 mg/kg
		3-chlorotoluene		0.1 mg/kg to 100 mg/kg
		4-chlorotoluene		0.1 mg/kg to 100 mg/kg
		2,3-dichlorotoluene		0.1 mg/kg to 100 mg/kg
		2,4-dichlorotoluene		0.1 mg/kg to 100 mg/kg
		2,6-dichlorotoluene		0.1 mg/kg to 100 mg/kg
		2,5-dichlorotoluene		0.1 mg/kg to 100 mg/kg
		3,4-dichlorotoluene		0.1 mg/kg to 100 mg/kg
		2,3,6 trichlorotoluene		0.1 mg/kg to 100 mg/kg
		2,4,5-trichlorotoluene		0.1 mg/kg to 100 mg/kg
		$\alpha,\alpha,\alpha,2$ Tetrachlorotoluene		0.1 mg/kg to 100 mg/kg
		Pentachlorotoluene		0.1 mg/kg to 100 mg/kg
		2,6, α,α -tetrachlorotoluene		0.1 mg/kg to 100 mg/kg
		Organo Tin compounds	GTP_Chem_CPS_25125B	
		Di butyltin (DBT)	ISO 17353	0.020 mg/kg to 100 mg/kg
		Tri butyltin (TBT)	DIN 38407-13	0.020 mg/kg to 100 mg/kg
		Mono butyltin (MBT)		0.020 mg/kg to 100 mg/kg
		Mono octyltin (MOT)		0.020 mg/kg to 100 mg/kg
		Di octyltin (DOT)		0.020 mg/kg to 100 mg/kg
		Tetra butyltin (TeBT)		0.020 mg/kg to 100 mg/kg
		Tri-n-propyltin (TPrT)		0.020 mg/kg to 100 mg/kg
		Triphenyltin (TPhT)		0.020 mg/kg to 100 mg/kg
		Tricyclohexyltin (TcyhT)		0.020 mg/kg to 100 mg/kg
		Diphenyltin (DPT)		0.020 mg/kg to 100 mg/kg
		Di-n-propyltin (DPrT)		0.020 mg/kg to 100 mg/kg
		Methyl tin (MT)		0.020 mg/kg to 100 mg/kg
		Bis-(Tributyl tin)Oxide		0.020 mg/kg to 100 mg/kg
		Di-tert-butyl tin (DtBT)		0.020 mg/kg to 100 mg/kg
		Tri-n-octyltin (TnOT)		0.020 mg/kg to 100 mg/kg
		Trimethyl tin (TMT)		0.020 mg/kg to 100 mg/kg

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		Dimethyl tin (DMT)		0.020 mg/kg to 100 mg/kg
		Alkyl Phenols and its Ethoxylates	GTP_Chem_CPS_25101B ISO-18254-1	
		Nonyl Phenol Ethoxylates(NPEO)		10 mg/kg to 2000 mg/kg,
		Octyl Phenol Ethoxylates(OPEO)		10 mg/kg to 2000 mg/kg,
		Nonyl Phenol(NP)		1.0 mg/kg to 2000 mg/kg
		Octyl Phenol(OP)		1.0 mg/kg to 2000 mg/kg
2.	Surface coatings and substrate of Paint and painted articles Children metal products, Metal Jewelry & non-metal children products) Textiles, its accessories, components and related products, Leather, its accessories, components and related products, Toys and toy related products	Lead Content	GTP_Chem_CPS_25132B CPSC CH E1001-08.1 CPSC CH E1002-08.1 CPSC CH E1003-09.1 16 CFR-1303, ASTM E1613 ASTM E1645 ASTM F 963 (4.3.5.1.1and 4.3.5.1.2) ASTM F 963 (4.3.5.2)	10 mg/kg to 1000 mg/kg for Surface Coating 2.0 mg/kg to 1000 mg/kg for Substrate
		Extractable Cadmium (Cd)	CPSC-CH-E1004-11	2.0 mg/kg to 1000 mg/kg
3.	Textiles (Metals), its accessories, components and related products	Nickel Release	GTP_Chem_CPS_25190B BS EN 1811 BS EN 12472	(0.05 to 50) ug/cm ² /week
4.	Textiles, its accessories, components and related products	Identification of Poly Vinyl Chloride	GTP_Chem_CPS_25128B	Qualitative test

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MECHANICAL TESTING

I.	TEXTILE MATERIALS			
1.	Fabrics (Woven), Garment & Apparels	Breaking strength and Elongation of Textile Fabrics (Grab Test)	ASTM D 5034	10N to 2200N, 1 %to 100%
		Breaking Force and Elongation of Textile Fabrics (Strip Method)	ASTM D 5035	10N to 2200N, 1 %to 100%
		Maximum Force and elongation at maximum force using the strip method	ISO 13934-1	10N to 2200N, 1 %to 100%
		Maximum Force using the grab method	ISO 13934-2	10N to 2200N, 1 %to 100%
		Tearing Strength of Fabrics -Elmendorf Apparatus	ASTM D 1424	3 N to 61N
		Ballistic pendulum method (Elmendorf)	ISO 13937-1	3 N to 61 N
		Tear force of trouser shaped test specimens (Single Tear method)	ISO 13937-2	10N to 2200N
		Tear force of wing-shaped test Specimens (Single tear method)	ISO 13937-3	10N to 2200N
		Tear force of tongue shaped test specimens (Double tear test)	ISO 13937-4	10N to 2200N
		Tearing strength of Fabric by Tongue (Single Rib)	ASTM D 2261	10N to 2200N

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam.	ASTM D 434	10 N to 2200 N
		Failure in Sewn Seam of Woven Apparel Fabrics	ASTM D 1683	10 N to 2200 N
		Maximum force to seam rupture using the strip method	ISO 13935-1	10 N to 2200 N
		Maximum force to seam rupture using the grab method	ISO 13935-2	10 N to 2200 N
		Slippage resistance of yarns at a seam in woven fabrics - Fixed seam opening method, Fixed load method	ISO 13936-1 ISO 13936-2	10 N to 2200 N
2.	Fabrics (Knitted), Garment & Apparels	Bursting Strength of Textile Fabrics - Diaphragm Bursting Strength Test method, Hydraulic method bursting strength	ASTM D 3786 / D 3786M-13 ISO 13938-1	100 to 750 Kpa (18psi-110psi)
		Textile -Bursting properties of Fabrics-pneumatic method	ISO 13938-2	100 kPa to 1000 kPa
3.	Fabrics (Woven &Knitted), Garment & Apparels	Fabric propensity to surface fuzzing and to pilling - Pilling box method	ISO 12945-1	Qualitative (Grade 1 to 5)
		Fabric propensity to surface fuzzing and to pilling -Modified Martindale method	BS EN ISO 12945-2 ASTM D4970/ D4970M	Qualitative (Grade 1 to 5)

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4.	Fabrics (Woven), Garment & Apparels	Warp (End) and Filling (Pick) Count of Woven Fabrics	ASTM D3775	10 to 80Threads/cm (25-200 Threads/Inch)
		Number of threads per unit length	ISO 7211/2	10 to 80Threads/cm (25-200 Threads/Inch)
5.	Fabrics (Knitted), Garment & Apparels Garments	Stitch Density of knitted fabrics & Garments	BS 5441	10 to 80Threads/cm (25 to 200 Threads/Inch)
		Tolerances of Knitted Fabrics	ASTM D3887 (Test # 12)	10 to 80Threads/cm (25 to 200 Threads/Inch)
6.	Fabrics (Woven &Knitted), Garment & Apparels Garments	Mass per unit length and Mass per Unit Area	BS 2471(Method 1)	50 GSM to 1000 GSM
		Mass Per Unit Area (Weight) of Fabrics.	ASTM D3776M/d3776M (Option C)	50 GSM to 1000 GSM
		Mass per unit length and mass per unit area	ISO 3801(Method 5)	50 GSM to 1000 GSM
7.	Fabrics (Woven &Knitted)	Width of Textile Fabrics	ASTM D3774-96	0.1 m to 3 m
		Width of Pieces	ISO 22198	10 cm to 300 cm
		Bow, Skew and Length way distortion in Woven and Knitted fabrics.	BS 2819	Up to 100%
		Bow and Skew in woven and Knitted Fabric.	ASTM D 3882	Up to 100%
8.	Fabrics (Woven)	Surface Water Absorption of Terry Fabric	ASTM D 4772	Up to 100%
9.	Fabrics (Knitted), Garment & Apparels Garments	Extension at a Specified Force. Modulus. Residual Extension.	BS 4952 Clause: 2.1 Clause: 2.2 Clause: 2.4	Extension: 0 to400% Modulus: 0 to 300% Recovery: 0 to 100%
		Stretch & Recovery/ Tension and Elongation of Elastic fabric	BS EN 14704-1 ASTM D4964	Extension: 0 to400% Modulus: 0 to 300% Recovery: 0 to 100%
10.	Fabrics (Knitted & Woven), Garment & Apparels Garments	Abrasion resistance of fabrics by the Martindale method-Specimen Breakdown	BS EN ISO 12947-2 ASTM D 4966	10 Cycles to 99999 Cycles

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		Mass Loss	BS EN ISO 12947-3	0 to 50%
		Assessment of appearance change	BS EN ISO 12947-4	Grade 1 to 5
		Propensity of Fabrics to Snagging. Rotating Chamber Method	BS 8479	Qualitative (Grade 1 to 5)
		Wettability of Textile Fabrics	BS 4554	2sec to 300sec
11.	Textiles Accessories	Slider Fasteners Strength of Puller attachment Strength of closed end Strength of top stop Strength of open-end fastener box Lateral strength for fastener Lateral Strength of open end attachment Slider locking device Open end fastener Single Stringer Slider retention	BS 3084 Annex B Annex C Annex D Annex E Annex G Annex H Annex I Annex J	10N to 2200N
		Resistance to reciprocation	BS 3084 Annex F	Up to 9999 Cycles Qualitative
		Strength Tests for Zippers Strength of Chains and Elements Holding strength of Stops Holding strength of separable units Resistance to pull-off of slider pull Holding strength of Slider lock	ASTMD 2061 (Section 9 to 16) (Section 17 to 24) (Section 25 to 32) (Section 72 to 81) (Section 92 to 100)	10N to 2200N
		Operability of Zippers	ASTM D 2062	Up to 9999 Cycles Qualitative
12.	Others	Strength of buckle fastening assemblies	BS 5131-5.11	10N to 2200N

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13.	Textiles Accessories	Removal force of attached Components.	BS 7907- Annex B	14N to 1300N
		Tension	EN 71-1, 8.4.2.1 16 CFR 1500.51-53	10N to 2200N
		Small Parts	16 CFR 1501 ASTM F 963 4.6	Qualitative
		Sharp edges	EN71 PART 1-Clause-8.11 16 CFR1500.48 ASTM F 963 4.7	Qualitative
		Sharp points	EN71 PART 1-Clause-8.12 16 CFR1500.49 ASTM F 963 4.9	Qualitative
		Torque	EN71 PART 1-Clause-8.3 16 CFR1500.51-53-	0.997kg-cm to 8.97kg-cm [0.867lbf-inch to 7.8lbf-inch]
14.	Fabrics (Knitted & Woven), Garment & Apparels Garments	Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Testers	ASTM D 3512/ D3512M	Qualitative (Grade 1 to 5)