

Laboratory Intertek India Private Limited, 501, Palladam Road, Thennampalayam, Tirupur, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2017

Certificate Number TC-7071

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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
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CHEMICAL TESTING

I.	TEXTILE			
1.	Yarn & Chords, Finished Fabric, Apparels/ Garments, Made-ups, Terry Fabrics & its products, Technical Textiles, Domestic Textiles.	Color fastness to washing	ISO 105 C10 ISO 105 C06 ISO 105 C08 DIN EN ISO 105 C06 AATCC 61 ISO 105 C09	Qualitative Grade 1-5
		Color Fastness to Rubbing (Crocking)	ISO 105 X 12 DIN EN ISO 105 X12 ISO 105 X16 AATCC 8 GB/T 3920	Qualitative Grade 1-5
		Color Fastness to Perspiration	ISO 105 E04 DIN EN ISO 105 E04 AATCC 15 GB/T 3922	Qualitative Grade 1-5
		Colour Fastness to Dry cleaning	ISO 105 D01 DIN EN ISO 105 D01 AATCC 132	Qualitative Grade 1-5
		Colour Fastness to Light	ISO 105 B02: 2014 DIN EN ISO 105 B02 AATCC 16.3	Qualitative Grade 1-8 Grade 1-8 Grade 1-8 Grade 1-5
		Colour Fastness to Water	ISO 105 E01 DIN EN ISO 105 E01 AATCC 107 GB/T 5713	Qualitative Grade 1-5

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		Colour Fastness to Bleaching Hypochlorite	ISO 105 N01 DIN EN ISO 105 N01 AATCC 61-5A	Qualitative Grade 1-5
		Colour Fastness to Peroxide	AATCC 101 ISO 105 N02	Qualitative Grade 1-5
		Colour Fastness To Chlorinated Water	ISO 105 E03 DIN EN ISO 105 E03	Qualitative Grade 1-5
		Colour Fastness to Chlorinated Pool Water	AATCC 162	Qualitative Grade 1-5
		Colour Fastness to Sea Water	ISO 105 E02 DIN EN ISO 105 E02 AATCC 106	Qualitative Grade 1-5
		Colour Fastness to Hot pressing	ISO 105 X 11 DIN EN ISO 105 X11 AATCC 133	Qualitative Grade 1-5
		Colour Fastness to Organic Solvent	ISO 105 X05 DIN EN ISO 105 X05	Qualitative Grade 1-5
		Colour Fastness to Saliva	DIN 53160 Part 1: 2.0 & II - GB/T 18886	Qualitative Grade 1-5
		Rug back staining on Vinyl Tile	AATCC 137	Qualitative Grade 1-5
		Dye Transfer in Storage	AATCC 163	Qualitative Grade 1-5
		Fabric Composition Qualitative analysis, Quantitative Analysis (Composition weight %)	AATCC 20 BS 4407 ISO 1833 ISO 5088 AATCC 20 A	Up to 100 %
		pH of the Aqueous-Extract (Cold & Hot)	ISO 3071 AATCC 81 GB/T 7573	1-14

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		Dimensional Stability to washing	ISO 6330 ISO 5077 ISO 3759 DIN EN ISO 6330GB/T 8629 GB/T 8628 GB/T 8630 AATCC 135 AATCC 150	(-) 50 % to 50 %
		Appearance of Fabric after repeated home laundering	AATCC 124 ISO 7768 ISO 15487	Qualitative Grade 1-5
		Appearance of apparel and other textile products after repeated home laundering	AATCC 143	Qualitative Grade 1-5
		Spirality / Torque	AATCC 179 BS EN ISO 6330 ISO 16322	(-) 20 % to (-) 50%
		Smoothness of seams in fabric after repeated home laundering.	AATCC 88B ISO 7770	Qualitative Grade 1-5
		Retention of creases in fabric after repeated home laundering	AATCC 88C ISO 7769	Qualitative Grade 1-5
		Colorfastness to Non chlorine Bleach	AATCC 172	Qualitative Grade 1-5
2.	Finished Fabric, Apparels/Garments ,Made-ups, Terry Fabrics & its products, Technical Textiles, Domestic Textiles.	Colour fastness to crocking: Rotary vertical crock meter method	AATCC 116	Qualitative Grade 1-5
		Colour fastness to crocking: Textile floor coverings-AATCC Crockmeter method	AATCC 165	Qualitative Grade 1-5

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		Free Formaldehyde	BS EN ISO 14184-I GB/T 2912.1 JIS L 1041	16 mg/kg to 1000 mg/kg
		Released Formaldehyde	AATCC 112 BS EN ISO 14184-II	16 mg/kg to 1000 mg/kg
		Dimensional stability to steam	BS 4323	(-) 50 % to 50%
		Soil Release - Oily Stain Release Method	AATCC 130	Qualitative Grade 1-5
		Oil Repellency	AATCC 118	Qualitative Grade 0-8
		Dimensional Stability to Dry cleaning	ISO 3175-2	(-) 50 % to 50 %
		Corrosion Resistance	BS EN ISO 22775 Method 2	Qualitative Grade 1-5
		Water Spotting	ISO 105 E07 AATCC 104	Qualitative Grade 1-5
		Water Absorbency	ASTM D 4772	50 ml
		Water Absorbency	AATCC 79	Up to 60 s
		Wicking	AATCC TS 017 AATCC 197	Up to 150 mm
		Color fastness to Phenolic yellowing	ISO 105 X18	Qualitative Grade 1-5
		Presence of Odor	GB/T 18401 part 6.7	NA
II.	HAZARDOUS & RESTRICTED CHEMICALS			

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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
1.	Textile & Textile products, Prints, Zippers & Textile Accessories	Chlorinated phenol Pentachlorophenol (PCP) CAS no 87-86-5 2,3,4,5 Tetrachlorophenol (2,3,4,5 TeCP) CAS no 4901-51-3 2,3,4,6 Tetrachlorophenol (2,3,4,6 TeCP) CAS no 58-90-2 2,3,5,6 Tetrachlorophenol (2,3,5,6 TeCP) CAS no 935-95-5 2,3,6 Trichlorophenol (2,3,6 TCP) CAS no 933-95-5 2,4,6 Trichlorophenol (2,4,6 TCP) CAS no 88-06-2 2,3,5 Trichlorophenol (2,3,5 TCP) CAS no 933-78-8 3,4,5 Trichlorophenol (3,4,5 TCP) CAS no 609-19-8 0-phenylphenol (OPP), CAS no.90-43-7	LMBG 35 B 82-02-8 DIN 53313 LMBG 35 B 82-02-8 DIN 53313	0.05 mg/kg to 100 mg/kg 0.05 mg/kg to 100 mg/kg

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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
		Aromatic amines derived from azo colorants O - Toluidine (95 - 53 - 4) 2, 4 Xylidine (95 - 68 - 1) O - Anisidine (90 - 04 - 0) P- Chloroaniline (106 - 47 - 8) P - Kresidine (120 - 71 - 8) 2, 4, 5 Trimethylaniline (137 - 17 - 7) 4 Chlor - O - Toluidine (95 - 69 - 2) 2, 4 Tolyenediamine (95 - 80 - 7) 2, 4 Diaminoanisole (615 - 05 - 4) 2 Naphthalamine (91 - 59 - 8)	LMBG 35 B 82-02- 2 LMBG 35 B 82-02- 4 BS EN 14362-1 BS EN 14362-3 GB/T 17592 LMBG 35 B 82-02-9	5 mg/kg to 300 mg/kg
		2 Aminonitro-4 Toluene(99 - 55 - 8) 4 Aminobiphenyl (92 - 67 - 1) P-Aminoazobenzene (60 - 09 - 03) 4, 4 Oxydianiline (101 - 80 - 4) Benzidine (92 - 87 - 5) 4, 4 Diamino - diphenyl methane (101 - 77 - 9) O Aminoazotoluene	LMBG 35 B 82-02- 2 LMBG 35 B 82-02- 4 BS EN 14362-1 BS EN 14362-3 GB/T 17592 LMBG 35 B 82-02-9	5 mg/kg to 300 mg/kg
	Malancha Das Convenor			Nitan Garg Program Manager

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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
		Chlorobenzene & chlorotoluene content 2-chlorotoluene, 3-chlorotoluene, 4-chlorotoluene, 2,3-Dichlorotoluene, 2,4-Dichlorotoluene, 2,5-Dichlorotoluene, 2,6-Dichlorotoluene, 3,4-Dichlorotoluene, 2,4,5-Trichlorotoluene, 2,3,6-Trichlorotoluene Tetrachlorotoluene, pentachlorotoluene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3,5-Trichlorobenzene, 1,2,3,4- Tetrachlorobenzene, 1,2,3,5- Tetrachlorobenzene, 1,2,4,5- Tetrachlorobenzene, Pentachlorobenzene, Hexachlorobenzene	DIN 54232 DIN 54232	0.1 mg/kg to 100 mg/kg 0.1 mg/kg to 100 mg/kg

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		Disperse and carcinogenic dyes:- Disperse blue 1,3, 106,26,124 Disperse Red 11,1,17 Disperse Yellow 1,9,3,23,39 Disperse Orange 3,37,1,11,149 Basic violet 3, Basic Red 9, Acid Red 26, Basic Violet 14, Direct Red 28, Basic red 46, Basic violet 1, Disperse Brown 1	In House/CH/TM-22-2016 (Issue No:4) DIN 54231	1 mg/kg to 5000 mg/kg
		Organotin compounds Methyltin (MET) Dibutyltin (DBT) Tributyltin (TBT) Tetrabutyltin (TTBT) Di-n-propyltin (DnPT) Mono-octyl tin (MOT) Dioctyltin (DOT) Triphenyltin (TPhT) Di phenyltin (DPh T)	BS EN 71 -3 Amd.1	0.05 mg/kg to 50 mg/kg
		Total Cadmium Content	GB/T 30157	10 mg/kg to 10000 mg/kg
		Nonyl Phenol Ethoxylates (NPEO) Nonyl Phenol (NP)	In House/CH/TM-39-2016 (Issue No:2) AFRIM method Version 2: 2017	10 mg/kg to 10000 mg/kg
		Octyl Phenol Ethoxylate (OPEO) Octyl Phenol (OP)	In House/CH/TM-39-2016 (Issue No:2) AFRIM method Version 2: 2017	10 mg/kg to 10000 mg/kg

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		Total Lead in Non metal (In children products)	CPSC-CH-E-1002-08.2. ASTM E1613 GB/T 30157	10 mg/kg to 10000 mg/kg
		Lead in paint/Lead in surface coating (paints & other similar surface coating)	CPSC-CH-E1003-09 ASTM E 1613	10 mg/kg to 10000 mg/kg
		Total lead content in Substrate (Metal)	CPSC-CH-E 1001-08.2012 ASTM E1613 In In House/CH/TM/29: 2016 (Issue No:2) In House/CH/TM/27: 2016 (Issue No:2) In House/CH/TM/28: 2016 (Issue No:2) In House/CH/TM/28: 2016 (Issue No:2)	10 mg/kg to 10000 mg/kg

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2.	Textiles with Plastic accessories and Toys & Sports Equipment	Phthalates (a) Phthalates in Toys and Childcare Articles (b) Phthalates in child care article as per EU Directives 2005/84/EC) 1 Di-isononyl phthalate (DINP); CAS No. 28553-12-0 Di-(2-ethylhexyl)phthalate (DEHP); CAS No. 117-81-7 Di-n-octyl phthalate (DNOP); CAS No. 117-84-0 Di-iso-decyl phthalate (DIDP); CAS No. 26761-40-0 Butyl benzyl phthalate (BBP); CAS NO. 85-68-7 Di-butyl phthalate (DBP); CAS No. 84-72-2 Di-n-hexyl phthalates (DnHP) CAS No. 84-75-3 N-pentyl-isopentylphthalate (NPIPP) CAS No. 84777-06-0 Bis(2-methoxyethyl) phthalate (DMEP) CAS No. 117-82-8 Di-n-petyl phthalate (DnPP)	CPSC-CH-C1001-09.3: BSEN 14372 EN ISO 14389 GB/T 20388	50 mg/kg to 10000 mg/kg
Malancha Das Convenor				Nitan Garg Program Manager

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		Migration of certain elements (Barium, Lead, Cadmium, Antimony, Selenium, Chromium Mercury, Arsenic, Aluminium, Boron, Cobalt, Copper, Manganese, Nickel, Strontium, Tin, Zinc)	EN 71-3-2013Amd.1	0.1 mg/kg to 10000 mg/kg
3.	Textile and Textile Products	APEOs	ISO 18254-1	10 mg/kg to 10000 mg/kg
4.	Textiles with Plastic/ Polymeric coating	Bisphenol A	In House/CH/TM -45: 2018 (Issue No:1)	0.1 mg/kg to 100 mg/kg
5.	Leather products	Dimethyl Fumarate	In House/CH/TM -11-2016 (Issue No:3) ISO/TS 16186	0.1 mg/kg to 1000 mg/kg

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		Aromatic amines derived from azo colorants O - Toluidine (95 - 53 - 4) 2, 4 Xylidine (95 - 68 - 1) O - Anisidine (90 - 04 - 0) P- Chloroaniline (106 - 47 - 8) P - Kresidine (120 - 71 - 8) 2, 4, 5 Trimethylaniline (137 - 17 - 7) 4 Chlor - O - Toluidine (95 - 69 - 2) 2, 4 Tolyenediamine (95 - 80 - 7) 2, 4 Diaminoanisole (615 - 05 - 4) 2 Naphthalamine (91 - 59 - 8) 2 Aminonitro-4 Toluene (99 - 55 - 8) 4 Aminobiphenyl (92 - 67 - 1) P-Aminoazobenzene (60 - 09 - 03) 4, 4 Oxydianiline (101 - 80 - 4) Benzidine (92 - 87 - 5) 4, 4 Diamino - diphenyl methane (101 - 77 - 9) O Aminoazotoluene	ISO 17234-1 ISO 17234-2 ISO 17234-1 ISO 17234-2	5 mg/kg to 300 mg/kg 5 mg/kg to 300 mg/kg
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		Chlorinated phenol Pentachlorophenol (PCP) CAS no 87-86-5 2,3,4,5 Tetrachlorophenol (2,3,4,5 TeCP) CAS no 4901-51-3 2,3,4,6 Tetrachlorophenol (2,3,4,6 TeCP) CAS no 58-90-2 2,3,5,6 Tetrachlorophenol (2,3,5,6 TeCP) CAS no 935-95-5 2,3,6 Trichlorophenol (2,3,6 TCP) CAS no 933-95-5 2,4,6 Trichlorophenol (2,4,6 TCP) CAS no 88-06-2 2,3,5 Trichlorophenol (2,3,5 TCP) CAS no 933-78-8 3,4,5 Trichlorophenol (3,4,5 TCP) CAS no 609-19-8	ISO 17070	0.05 mg/kg to 100 mg/kg
		0-phenylphenol (OPP), CAS no.90-43-7 (2-Chloro phenols) CAS no: 95-57-8 (3-Chloro phenols) CAS no: 108-43-0 (4-Chloro phenols) CAS no: 106-48-9 (2,3-Dichlorophenols) CAS no: 576-24-9 (2,4-Dichlorophenols) CAS no: 120-83-2 (2,5-Dichlorophenols)	ISO 17070	0.05 mg/kg to 100 mg/kg
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		Chromium VI	ISO 17075-1 DIN 53314	1 mg/kg to 100 mg/kg
		Free & released Formaldehyde	ISO 17226-1 GB/T 19941	5 mg/kg to 1000 mg/kg
		pH of aqueous extract	ISO 4045	1 to 14
		Nonyl Phenol Ethoxylates (NPEO) Nonyl Phenol (NP)	AFIRM method Version 2: 2017	10 mg/kg to 10000 mg/kg
		Octyl Phenol Ethoxylate (OPEO) Octyl Phenol (OP)	AFIRM method Version 2: 2017	10 mg/kg to 10000 mg/kg
6.	Plastics & Polymeric Products.	Total Cadmium Content	BS EN 1122	10 mg/kg to 10000 mg/kg

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		PAHs Naphthalene (91-20-3) Acenaphthylene (208-96-8) Acenaphthene (83-32-9) Fluorene (86-73-7) Phenanthrene (85-01-8) Anthracene (120-12-7) Fluoranthene (206-44-0) Pyrene (129-00-0) Benzo[a]anthracene (56-55-3) Chrysene (218-01-9) Benzo[b]fluoranthene (205-99-2) Benzo[j]fluoranthene (205-82-3) Benzo[k]fluoranthene (207-08-9) Benzo[e]pyrene (192-97-2) Benzo[a]pyrene (50-32-8) Indeno[123-cd]pyrene (193-39-5) Dibenzo[a,h]anthracene (53-70-3) Benzo[g,h,i]perylene (191-24-2)	AFPS GS 2014:01-PAK	0.2 mg/kg to 200 mg/kg
		Nonyl Phenol Ethoxylates (NPEO) Nonyl Phenol (NP)	In House/CH/TM-39: 2016 (Issue No:2)	10 mg/kg to 10000 mg/kg

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		Octyl Phenol Ethoxylate (OPEO) Octyl Phenol (OP)	In House/CH/TM-39: 2016 (Issue No:2)	10 mg/kg to 10000 mg/kg
7.	Zippers, Metal materials	Nickel release	EN 1811: 2011+a1 EN 12472 +A1	0.05 µg/cm ² /Week to 10 µg/cm ² /Week
8.	Jewellery products	Lead (total amount)	GB/T 28021	10 mg/kg to 300000 mg/kg
		Cadmium (total amount)		10 mg/kg to 10000 mg/kg
		Mercury (total amount)		10 mg/kg to 300000 mg/kg
		Arsenic (total amount)		10 mg/kg to 300000 mg/kg
9.	Electro chemical Product containing hazards chemicals, polymer & metal	Migration of Certain Elements	IEC 62321	0.2 mg/kg to 300000 mg/kg
		Lead		0.2 mg/kg to 100000 mg/kg
		Cadmium		0.2 mg/kg to 100000 mg/kg
		Mercury		1.0 mg/kg to 2000 mg/kg
		Chromium (VI)		mg/kg

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MECHANICAL TESTING

I.	TEXTILE MATERIALS			
1.	Textile: Woven Fabrics	Breaking Strength & Elongation		
		- Strip method:	ISO 13934 (Part 1) ASTM D 5035 BS 2576	10 N to 4.5 kN 2.2 lbf to 1011 lbf
		- Grab method:	BS EN ISO 13934 Part II – ASTM D5034	1.0 % to 50 %
		Tear Strength	ASTM D1424	
		- Falling pendulum method	e1 BSEN ISO 13937-I 2000/Cor.1 :2004(E)	3 N to 130 N (300 gf to 13 kgf)
		- Tongue Tear	ASTM D2261 - 13(2017)e1	
		- Trouser shape Tear	BSEN ISO 13937-II BS 4303	3.2 N to 51.2 N (320 gf to 5120 gf)
2.	Textile: Woven & Knitted Fabric	Bursting Strength:	ASTM D3786/D3786	110 kPa to 990 kPa
		Hydraulic method:	ISO 13938-1 ISO 13938 Part II	(15.9 Psi to 143.6 Psi) 138 kPa to 1104 kPa (20 Psi to 160 Psi)
		Pneumatic method:		
3.	Textile: Woven Fabrics	Seam Properties:	BS 3320	10 N to 4.5 kN
		Fixed seam method	ASTM D434 BS EN ISO 13936-1	(2.2 lbf to 1011 lbf)
		Seam strength	ASTM D1683/D1683M:17e1	
		Fixed load	ISO 13935-2 ISO 13936-2	

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		Threads per Unit Length (woven Fabric Construction)	BS 2862 ISO 7211/2 ASTM D3775 BS EN 1049 Part 2	1 / cm to 79 / cm (3 / in to 200 / in)
4.	Textile: Knitted Fabric	Stitch Density (knitted fabric)	BS 5441 ASTM D3887	1 / mm to 80 / mm (3 / in to 200 / in)
5.	Textile: Woven & Knitted Fabrics	Fabric Weight Per Unit Area	BS 2471 Method 1 ISO 3801 Method 5 ASTM D3776/3776M-09a Option C BSEN 12127	30 gsm to 50 % gsm
		Distortion in bowed and skewed fabrics	BS 2819 ASTM D3882 -08e1	(-) 50 % to 20 %
		45 degree angle Flammability of General Clothing Textiles	ASTM D 1230 CPSC CFR 16 Part 1610 CAN/CGSB 4.2 No 27.5:2014 GB/T 14644	1to 99 s
		Vertical Flammability	BS EN 14878	Upto 50 s
		Flammability of Children's Sleepwear	16 CFR 1615/1616	Upto 25 cm (Upto 10 in)
6.	Carpet & Rugs	Surface Flammability of Carpets & Rugs	16 CFR 1630 16 CFR 1631 BS EN ISO 12952-1	Up to 8.9 cm (0 to 7.0 inch)
		Ignitability of Bedding Items		Qualitative

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7.	Textile: Woven & Knitted Fabrics	Fabric Propensity to Pilling and Fuzzing ICI Pillbox Method	BSEN ISO 12945 part1	Qualitative Grade 1 to 5	
		Modified Martindale Method	BSEN ISO 12945 part2 ASTM D 4970/D4970M ASTMD3512/D3512M-		
		Random Tumble Pilling Universal Wear Tester Circular locus method	ASTMD3514/D3514M- GB/T 4802.1		
		Abrasion Resistance Specification End point method	Flat abrasion Flex abrasion	BS EN ISO 12947 -Part I BS EN ISO 12947 Part II ASTM D4966- 12	1000 cycles to 100000 cycles
				ASTM D3886-99 ASTM D3885-07a	2 cycles to 99999 cycles
		Fabric Width	BS 1930 ISO 22198 ASTM D3774	1 cm to 300cm	
		Water Repellency	AATCC 22 ISO 4920	Upto100 Upto 5	
8.	Textile: Knitted Fabrics	Stretch Properties of knit fabrics	ASTM D2594	Growth Upto 80%	
9.	Textile: Woven Fabrics	Stretch Properties of Woven fabrics	ASTM D3107	Growth up to 50% Recovery up to 90%	
10.	Textile: Woven & Knitted Fabrics	Elasticity of Fabrics	BS EN 14704-1	Elongation Upto 300%	
11.	Textile Accessories	Zipper test	BS 3084:2006	10N to 1000N	
		CPSC Drawstrings Guideline on Children's upper outer wear/ clothing	ASTM F 1816 BS EN 14682 CPSC 208	Qualitative	

Laboratory Intertek India Private Limited, 501, Palladam Road, Thennampalayam,
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Accreditation Standard ISO/IEC 17025: 2017

Certificate Number TC-7071

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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
		Safety Technical code for Infants and children textile products	GB/T 31701 Clause 4.4 Annex A	Qualitative
		Sharp Point	16 CFR 1500.48 GB/T 31702	Qualitative
		Sharp Edge	16 CFR 1500.49 GB/T 31702	Qualitative
		Small Parts (Chocking Hazard Test)	16 CFR 1501	Qualitative
		Torque Tension Impact	16 CFR 1500.51-53e 16 CFR 1500.51-53f 16 CFR 1500.51-53b	Qualitative