

**Laboratory** Bureau Veritas Consumer Products Services (India) Pvt. Ltd., 79/51, MRD Complex, P. N. Road, Tirupur, Tamil Nadu

**Accreditation Standard** ISO/IEC 17025: 2017

**Certificate Number** TC-7675 **Page 1 of 18**

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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.	HAZARDOUS & RESTRICTED CHEMICALS			
1.	<b>Textile &amp; Textile Products (Including Articles containing Print, Coating &amp; Plastic and Polymeric materials)</b>	Migration of certain elements (Pb, Cd, Cr, Hg, Se, Sb, As, Ba)	CPSD-AN-00003-MTHD:V43, EN 71-3 ASTM F963	2.5 mg/kg to 1000 mg/kg
2.	<b>Textile &amp; Textile Products (Including Articles containing Print, Coating, Plastic, Polymeric materials &amp; Leather)</b>	Total Heavy Metal Content (As, Ba, Cr, Hg, Sb, Se, Pb, Cd)	CPSD-AN-00164-MTHD:V42, ASTM E1645, ISO 16711-1	5 mg/kg to 40000 mg/kg
3.	<b>Textile &amp; Textile Products</b>	Total Lead in Non-metal Children's Products	CPSD-AN-00196-MTHD:V27, CPSC-CH-E1002-08.3, ASTM F963	2 mg/kg to 5000mg/kg
		Free and hydrolysed formaldehyde in textile (water extraction method)	CPSD-AN-00054-MTHD:V33, CPSD-AN-00019-MTHD:V28, ISO 14184-part 1, JIS 1041 A & B, SASO-2142	12.5 mg/kg to 1000 mg/kg

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		Released formaldehyde in textile (vapour absorption method)	CPSD-AN-00055-MTHD:V9, CPSD-AN-00020-MTHD:V12 ISO 14184-2, AATCC-112 SASO-2143	5 mg/kg to 1000 mg/kg
		Odour test	CPSD-AN-00083-MTHD:V12, CPSD-AN-00283-MTHD:V8, SNV 195651 GB 18401 GB/T 23170	Qualitative
		Banned amines(azo dyes) in textile 1). O-Toluidine 2). 2,4-xylidine 3). 2,6-xylidine 4). 2-Methoxyaniline 5). p-Chloroaniline 6). p-Kresidine 7). 2,4,5-Trimethylaniline 8). 4-Chloro-o-Toluidine 9). 2,4-Toluylenediamine 10). 2,4-Diaminoanisole 11). 2-Naphthylamine 12). 2-Amino-4-nitrotoluene 13). 4-aminoazobenzene 14). 4-Aminodiphenyl 15). 4,4-Oxydianiline 16). Benzidine 17). 4,4-Diaminodiphenylmethane	CPSD-AN-00607-MTHD:V26, CPSD-AN-00107-MTHD:V38, CPSD-AN-00272-MTHD:V25, EN 14362-1, EN 14362-3. 64 LMBG B82.02-4 GB/T 17592	4 mg/kg to 1000 mg/kg

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		18). O-Aminoazotoluene 19). 3,3-Dimethyl-4,4-diaminodiphenylmethane 20). 3,3-Dimethylbenzidine 21). 4,4-Thiodianiline 22). 3,3-Dichlorobenzidine 23)4,4-Methylene-bis-(2-Chloroaniline) 24)3,3-Dimethoxybenzidine		
		Formaldehyde by spot	CPSD-AN-00018:V11, AATCC Test Method 94	Qualitative Present/Absent
		Disperse dyes 1). Disperse Brown-1 2). Disperse Blue-124 3). Disperse Blue-3 4). Disperse Blue-106 5). Disperse Blue-7 6). Disperse Blue-102 7). Disperse Blue-1 8). Disperse Blue-35 9). Disperse Orange-1 10). Disperse Orange-3 11). Disperse Orange-11 12). Disperse Orange-37 13). Disperse Orange-149 14). Disperse Yellow-1 15). Disperse Yellow-3 16). Disperse Yellow-9 17). Disperse Yellow-39 18). Disperse Yellow-49 19). Disperse Red-1	CPSD-AN-00048-MTHD:V41, DIN 54231 LFGB 82.02-10	1 mg/L to 100 mg/L

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		20). Disperse Red-11 21). Disperse Red-17 22). Basic Red-9 23). Basic Violet-14HCL 24). Disperse Yellow-23 25). Disperse yellow-56 26). Disperse blue-26 27). Solvent yellow-1 28). Solvent yellow-2 29). Solvent yellow-3 30). Disperse Yellow-7 31). Disperse Red 151 32). Solvent Red-23 33). Basic Blue-26 34). Basic Violet-1 35). Basic Violet-3 36). Navy Blue		
		Carcinogenic dyes 1). Acid Violet-49 2). Acid Red-26 3). Direct Red-28 4). Direct Black-38 5). Direct blue-6 6). Direct brown-95	CPSD-AN-00049-MTHD:V24, DIN 54231 LFGB 82.02-10	1mg/L to 100 mg/L
		Dimethyl fumarate (DMFu)- By gaschromatography	CPSD-AN-00647-MTHD,V8	25 µg/kg to 5000 µg/kg
		Chlorophenols in textile 1)Pentachlorophenol (PCP) 2). 2,3,5,6-Tetrachlorophenol 3). 2,3,4,6-Tetrachlorophenol 4). 2,3,4,5-	CPSD-AN-00094-MTHD:V12, DD CEN/TS 14494	0.05 mg/kg to 300 mg/kg

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		Tetrachlorophenol 5)O-phenylohenol (OPP) 6). 2,4,6-Trichlorophenol 7). 2,3,5-Trichlorophenol 8). 2,3,6-Trichlorophenol 9). 2,4,5-Trichlorophenol 10). 3,4,5-Trichlorophenol 11). 2,3,4-Trichlorophenol		
		Triclosan (Biocides)	CPSD-AN-00619 MTHD:V3	1 mg/kg to 1000 mg/kg
		Chlorinated Organic Carrier (COC's) In Textile 1). 2-Chlorotoluene 2). 3-Chlorotoluene 3). 4-Chlorotoluene 4). 2,3-Dichlorotoluene 5). 2,4-dichlorotoluene 6). 2,5-Dichlorotoluene 7). 2,6-Dichlorotoluene 8). 3,4-dichlorotoluene 9). 2,3,6-Trichlorotoluene 10). 2,4,5-Trichlorotoluene 11). 2,3,4,5,6-Pentachlorotoluene 12). Chlorobenzene 13). 1,2-Dichlorobenzene 14). 1,3-Dichlorobenzene 15). 1,4-	CPSD-AN-00043-MTHD:V23, DIN54232	0.1 mg/kg to 100 mg/kg

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		Dichlorobenzene 16). 1,2,3-Trichlorobenzene 17). 1,2,4-Trichlorobenzene 18). 1,3,5-Trichlorobenzene 19). 1,2,3,4-Tetrachlorobenzene 20). 1,2,3,5-Tetrachlorobenzene 21). 1,2,4,5-Tetrachlorobenzene 22). Pentachlorobenzene 23). Hexachlorobenzene 24). $\alpha,\alpha,\alpha$ -Trichlorotoluene 25). $\alpha,\alpha,\alpha$ -2-Tetrachlorotoluene 26). $\alpha,\alpha,\alpha$ -4-Tetrachlorotoluene 27). $\alpha,\alpha,2,6$ -Tetrachlorotoluene		
4.	<b>Textile and Textile Products (thermoplastic paint and ink /Synthetic fibers)</b>	Phthalates 1). di-n-butyl phthalate (DBP) 2). butyl benzyl phthalate (BBP) 3). di(ethylhexyl) phthalate (DEHP) 4). di-n-octyl phthalate (DNOP) 5). di-isononyl phthalate (DINP)	CPSD-AN-00095-MTHD:v49, EN ISO 14389 CPSC-CH-C1001-09.4	50 mg/kg to 100000 mg/kg

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		6). di-iso-decyl phthalate (DIDP) 7). di-n-hexylphthalate (DHP) 8). di-isobutyl phthalate (DIBP) 9). Diethyl Phthalate (DEP) 10).Diisoheptyl Phthalate (DIHePp) 11).Butyl Octyl Phthalate (BOP) 12). Diundecyl phthalate (DUP) 13). Bis(2-methoxyethyl) phthalate (DMEP) 14). Di-isopentyl phthalate (DiPP) 15). n-pentylisopentyl phthalate(PiPP) 16). Di-n-pentyl phthalate (DnPP) 17). Di cyclohexyl phthalate (DCHP) 18). Diisooctyl Phthalate (DIOP) 19). Dinonyl Phthalate (DNP) 20). Dimethyl phthalate (DMP) 21). Di-n-propylphthalate (DPRP) 22). Di-isohexyl phthalate (DIHxP)		

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5.	Textile & Textile Products (Including Plastic, Paint & Liquid)	APEO & AP 1). 4-n-Octylphenol (OP) 2). 4-n-Nonylphenol (NP) 3). Octylphenol-Ethoxylate (OPEO-2 to OPEO-16) 4). 4-Nonylphenol-Ethoxylate (NPEO-2 to NPEO-18) 5). Tert-4-ctylphenol (tert-OP)	CPSD-AN-00735-MTHD:v15, ISO 18254-1 DIN EN ISO 21084	5mg/kg to 100 mg/kg  30mg/kg to 1000mg/kg
6.	Textile & Textile Products (Paint, Coating, Plastic & Plastic components)	Organotin in Textile 1). Monobutyltin-trichloride 2). Dibutyltin dichloride 3). Tributyltin chloride 4). Tetrabutyltin 5). Monoctyltin-trichloride 6). Dioctyltin dichloride 7). Trioctyltin chloride 8). Tripropyltin chloride 9). Triphenyltin chloride 10). Tricyclohexyltin chloride	CPSD-AN-00089 MTHD:V30	0.025mg/kg to 500 mg/kg
7.	Textiles and Textiles Products (Paint and other similar surface coating)	Total lead content in surface coating	CPSD-AN-00001-MTHD:V45, CPSC-CH-E1003-09.1 16 CFR 1303 ASTM E 1645 ASTM E 1613	10mg/kg to 5000 mg/kg
8.	Textiles and Textiles Products (Coating, Plastic & Polymeric products)	Cadmium content	CPSD-AN-00004-MTHD:V22, EN 1122, ASTM F963	2.5mg/kg to 2000 mg/kg



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9.	Textiles and Textiles Products (Coating, Plastic & Polymeric products)	PVC Identification	CPSD AN 00023 MTHD:V7	Qualitative >10%
	Textile Product Containing Metal products (Including Children's Metal Jewellery)			
10.	Textile product containing Metal Products (Including Children's Metal Jewellery)	Total Lead content in children Metal products	CPSD-AN-00185-MTHD; V27, CPSD-AN-00007-MTHD:V14, CPSD-AN-00066-MTHD:V24, CPSC-CH-E1001-08.3 ASTM E1645	2mg/kg to 5000 mg/kg
		Cadmium content	CPSD-AN-00495MTHD;V8, CPSD-AN-00066 MTHD;V24, ASTM F963 CPSC-CH-E1004-11	2mg/kg to 2000 mg/kg
		Nickel spot (Rubbing Test)	CPSD-AN-00013-MTHD;V8, EN 12471	Qualitative
		Nickel Release	CPSD-AN-00014-MTHD; V21, CPSD-AN-00542-MTHD;V17, EN12472:2005+ A1 EN 1811:2011+ A1	0.02 µg/cm <sup>2</sup> /week to 50 µg/cm <sup>2</sup> /week

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II.	<b>TEXTILE (WOVEN &amp; NON WOVEN)</b>			
1.	<b>A) Yarns &amp; Chords, B) Finished Fabrics, C) Apparels &amp; Garments, D) Made Ups, E) Terry Fabrics &amp; It's Products, F) Domestic Textiles</b>	Colourfastness to Domestic and Commercial Launderings	AATCC 61 ISO 105 C06 BS EN ISO 105 C06 DIN EN ISO 105 C06	Qualitative Grade 1.0 to 5.0
		Colourfastness to Perspiration	AATCC 15 ISO 105 E04 BS EN ISO 105 E04 DIN EN ISO 105 E04	Qualitative Grade 1.0 to 5.0
		Colourfastness to water	AATCC 107 ISO 105 E01 BS EN ISO 105 E01	Qualitative Grade 1.0 to 5.0
		Colourfastness to Crocking/ Rubbing	AATCC 8 ISO 105 X12 BS EN ISO 105 X12 DIN EN ISO X12	Qualitative Grade 1.0 to 5.0
		Colourfastness to light	ISO 105 B02 BS EN ISO 105 B02, DIN EN ISO 105 B02	Qualitative Blue Wool Scale Standard Rating 1 to 8
2.	<b>A) Yarns &amp; Chords, B) Finished Fabrics, C) Apparels &amp; Garments, D) Made Ups, E) Terry Fabrics &amp; It's Products, F) Domestic Textiles</b>	Colorfastness to Dry-Cleaning	AATCC 132, ISO 105 D01, BS EN ISO 105 D01 DIN EN ISO 105 D01	Qualitative Grade 1.0 to 5.0
		Colorfastness to powered Non-Chlorine bleach in Home Laundering	AATCC 172	Qualitative Grade 1.0 to 5.0
		Colourfastness to bleaching:Hypochlorite	ISO 105 N01, BS EN 20105-N01 DIN EN 20105-N01	Qualitative Grade 1.0 to 5.0
		Determination of the Colourfastness of articles for common use-1.Test with artificial saliva,2.Test with artificial sweat	DIN 53160-1  DIN 53160-2	Qualitative Grade 1.0 to 5.0

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		Colorfastness:Dye Transfer in Storage; Fabric-to-Fabric	AATCC 163	Qualitative Grade 1.0 to 5.0
		Colorfastness to Domestic and Commercial Laundering (Low temperature bleach activator)	BS EN ISO 105-CO8 BS EN ISO 105-CO9+A1	Qualitative Grade 1.0 to 5.0
		Colorfastness to Washing with Soap or Soap & soda	ISO 105-C10	Qualitative Grade 1.0 to 5.0
		Colorfastness to Organic Solvents	ISO 105 X05 BS EN ISO 105 X05	Qualitative Grade 1.0 to 5.0
		Assessment of the potential to phenolic yellowing of materials	ISO 105 X18	Qualitative Grade 1.0 to 5.0
		Colorfastness to Crocking:Rotary Vertical CrockmeterMethod	AATCC 116 ISO 105 X16	Qualitative Grade 1.0 to 5.0
		Colour fastness to bleaching:Peroxide	ISO 105 N02	Qualitative Grade 1.0 to 5.0
3.	A) Yarns & Chords, B) Grey Fabrics, C) Finished Fabrics, D) Apparels & Garments, E) Made Ups, F) Terry Fabrics & It's Products, G) Domestic Textiles	Fibre Composition	AATCC 20 AATCC 20A (Method No. 1, 3, 4, 5, 6, 7, 9, 10) Regulation (EU) No 1007 CAN/CGSB-4.2 No.14 ISO 1833-1 / COR 1 ISO 1833-2,3,5,8,12,16,18 ISO 1833-6 ISO 1833-4,7,11	0.1 to 100%

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4.	A) Finished Fabrics, B) Apparels & Garments, C) Made Ups, D) Terry Fabrics & It's Products, E) Domestic Textiles	Resistance to surface wetting(Spray Test) of fabrics	AATCC 22 BS EN ISO 4920 ISO 4920	Qualitative Rating 0 to 100 ISO 0 to 5
		Surface Water Absorption of Terry Fabrics (Water Flow)	ASTM D4772	1 to 100%
		Absorbency of Textiles	AATCC 79	Up to 60 Sec.
		Soil Release-Oily stain Release Method.	AATCC-130	Qualitative Grade 1.0 to 5.0
5.	A) Grey Fabrics, B) Finished Fabrics, C) Terry Fabrics & It's Products, D) Domestic Textiles	Dimensional changes of Fabrics after Home Laundering	AATCC-135	(-)50% to (+)50%
		Skew change in Fabrics After Home Laundering	AATCC 179	(-)50% to (+)50%
		Dimensional changes of Garments after Home Laundering	AATCC-150	(-)50% to (+)50%
		Seam Twist in Garments Before and After Home Laundering*	AATCC 207	Up to 50%
6.	A) Grey Fabrics, B) Finished Fabrics, C) Apparels & Garments, D) Made Ups, E) Terry Fabrics & It's Products, F) Domestic Textiles	Dimensional change in washing and drying, Preparation, marking and measuring of fabric specimens andgarments in tests for determination ofdimensional change.	ISO 5077, ISO 3759 ISO 6330 BS EN ISO 6330 DIN EN ISO 6330	(-)50% to (+)50%
		Spirality after Home Laundering	ISO 16322-1& 3 ISO 16322-2/cor 1	Up to 50%

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7.	A) Finished Fabrics, B) Terry Fabrics & It's Products, C) Domestic Textiles	Smoothness of Seams in Fabrics after Repeated Home Laundering	AATCC 88B	Qualitative SS-1 to SS-5
		Retention of Creases in Fabrics after Repeated Home Laundering	AATCC 88C	Qualitative CR-1 to CR-5
		Smoothness Appearance of Fabrics after Repeated Home Laundering	AATCC 124	Qualitative SA-1 to SA-5
8.	A) Finished Fabrics, D) Apparels & Garments, E) Made Ups, F) Terry Fabrics & It's Products, G) Domestic Textiles	Appearance of Apparel and Other Textile End Products after Repeated Home Laundering	AATCC 143	Qualitative SA-1 to SA-5
		Textile & Textile Products	pH of water-extract from wet processed textiles	CPSD-AN-00025-MTHD:V14, ISO 3071 CPSD-AN-00026-MTHD:v 11, AATCC 81 CPSD-AN-00027-MTHD:V7, EN1413 EN420 2003+A1 CPSD-AN-00028-MTHD:V13, GBT7573

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### MECHANICAL TESTING

I.	TEXTILE MATERIALS			
1.	Garment/Fabric	'Mass per unit area' (weight) of fabric. GSM	ASTM D 3776/D3776 M (Option C) ISO 3801/Method-5 BS EN 12127	25 g/m <sup>2</sup> to 1000 g/m <sup>2</sup>
		Warp and weft count per unit length of woven fabric (Fabric Construction)	ASTM D 3775 ISO 7211-2	10 threads/inch to 500 threads/inch
		Course & Wales per unit length of Knitted fabrics	ASTM D 3887 Section 12 BS 5441/Section 2-8	10 threads/inch to 500 threads/inch
		Breaking strength Textile Fabrics (Grab Test)	ASTM D5034 BS EN ISO 13934:Part-II	10N to 2000 N (2.2 lbf to 449.6 lbf)
		Breaking strength & Elongation Textile Fabric (Strip Test)	ASTM D5035 BS EN ISO 13934:Part-I	10N to 2000 N (2.2 lbf to 449.6 lbf) 1% to 100%
		Maximum force to seam rupture using the grab method	ISO 13935-2	10N to 2000 N (2.2 lbf to 449.6 lbf)
		Resistance to Slippage of Yarns in woven fabric using a std seam	ASTM D434	10N to 2000 N (2.2 lbf to 449.6 lbf)
		Failure in Sewn seams of woven fabrics	ASTM D 1683/D1683M	10N to 2000 N (2.2 lbf to 449.6 lbf)
		Slippage Resistance of Yarns in woven fabrics:Part 1:Fixed Seam opening Method Part 2:Fixed load method	BS EN ISO 13936:Part-I ISO 13936-2	10N to 2000 N (1.0 kgf to 203.9 kgf)  1mm to 20mm

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		Tearing Strength of fabrics by falling Pendulum Type (Elmendorf Apparatus)	ASTM D1424 ISO 13937-1/Cor 1	240 g to 5440 g (0.5 lbf to 12 lbf)
		Tearing Strength of fabrics by the tongue (Single Rip) procedure (CRE Tensile Testing Machine)	ASTM D2261	10N to 2000 N (2.2 lbf to 449.6 lbf)
		Tear properties of fabrics-Part 2:Trouser-shaped test specimens (Single tear method)	ISO 13937-2	
		Bursting Strength of Textile Fabrics- Diaphragm Bursting Strength Tester method	ASTM D 3786/D3786M-18 ISO 13938-1 BS EN ISO 13938-1	82.7 kPa to 1240 kPa (12 psi to 180 psi)
		Abrasion resistance of textile fabrics: Martindale Abrasion Tester method. Yarn Break	ISO 12947-1/Cor1	100 rubs to 50,000rubs
		Change in appearance	ASTM D4966 ISO 12947-2 [Option 1]	Qualitative Grade 1 to 5
		Mass loss	ASTM D4966 ISO 12947-4/Cor1 [Option 2]	0.001 g to 0.1g
			ASTM D4966 ISO 12947-3/Cor1 [Option 3]	

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		Pilling Resistance and other related surface changes of textile fabrics:Random Tumble Pilling Tester	ASTM D 3512/D3512M	Qualitative Class 1 to 5
		Fabric propensity to surface fuzzing & to pilling (Modified Martindale Method)	ISO 12945 (Part 2) BS EN ISO 12945 (Part 2)	Qualitative Grade 1 to 5
		Fabric propensity to surface fuzzing & to pilling (Pilling Box method)	ISO 12945-1	Qualitative Grade 1 to 5
		Pilling Resistance and Other Related Surface Changes of Textile Fabrics:Martindale Tester	ASTM D4970/D4970M	Qualitative Class 1.0 to 5.0
		Bow & Skew in woven & knitted fabrics	ASTM D 3882	Up to 50%
		Tension and Elongation of Elastic Fabrics	ASTM D4964	10N to 2000 N (2.2 lbf to 449.6 lbf)
		Stretch Properties of Knitted FabricsHaving Low Power	ASTM D2594	Up to 200%
		Stretch Properties of woven FabricsFrom Stretch Yarns	ASTM D3107	Up to 100%
		Elasticity of fabrics-Strip Tests	BS EN 14704-1	Up to 300%
		Linear Density of Yarn Removed From Fabric	ISO 7211/5 ASTM D1059	1 Ne to 100 Ne
		Linear Density of		



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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
		Component Yarns	BS 5441/Section 2-11	
		Impact Resistance of Plastic Sew-Through Buttons	ASTM D5171	Qualitative
		Flammability of Carpets & Rugs	16 CFR 1630 & 1631	Qualitative
		Flammability of Clothing Textile	16 CFR 1610 ASTM D1230	Qualitative
		Textile-Burning behaviour of Children's Nightwear-Specification	BS EN 14878	Qualitative
		Fabrics for Apparel-Detailed Procedure to Determine the Burning Behaviour	BS EN 1103	Qualitative
		Burning Behaviour-Measurement of Flame Spread Properties of Vertically Oriented Specimens	BS EN ISO 6941	Qualitative
		Specification for Flammability Performance of Fabrics and Fabric Combinations used in Nightwear Garments	BS 5722	Qualitative
		Flammability of Textile fabrics when subjected to a small igniting flame applied to the face or bottom edge of Vertically Oriented specimens	BS 5438	Qualitative

**Laboratory** Bureau Veritas Consumer Products Services (India) Pvt. Ltd., 79/51, MRD Complex, P. N. Road, Tirupur, Tamil Nadu

**Accreditation Standard** ISO/IEC 17025: 2017

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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
		Pneumatic method for determination of bursting strength and bursting distension	ISO 13938-2	50 kPa to 800 kPa
2.	Textile Accessories	Resistance to Unsnapping of Snap Fasteners	ASTM D 4846	10N to 2000 N (2.2lbf to 449.6 lbf)
		Zipper fastening Test (Excluding Reciprocating Test)	ASTM D 2061 BS 3084	10N to 2000 N (2.2lbf to 449.6 lbf)
		Removal force of attached components	BS 7907	10N to 2000N (2.2lbf to 449.6 lbf)
		Sharp Points [under a force of 4.45N (1pound) ]	ASTM F 963 Section 4.9 16 CFR 1500.48	Qualitative
		Sharp edges [under a force of 8.90N (2pound) ]	ASTM F 963 Section 4.7 16 CFR 1500.49	Qualitative
		Torque Test	ASTM F 963 Section 8.8 BS EN 71-1/Section 8.3	Upto 9kg-cm (7.8 inch pound)
		Tension Test	16 CFR 1500.51-53 BS EN 71-1 Section 8.4	Upto 90 N Qualitative
		Small Parts-Choking hazard Test (small part cylinder of 31.7 mm inner diameter)	ASTM F 963 Section 4.6 16 CFR 1501	Qualitative