

Laboratory **Bureau Veritas Consumer Products Services (India) Pvt. Ltd., 212, Udyog Vihar, Phase IV, Gurgaon, Haryana**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6201 (in lieu of T-1294 & T-1295)**

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Validity **31.07.2017 to 30.07.2019**

Last Amended on **30.08.2017**

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 MATERIALS			
1.	Fibres, Yarns and Fabrics	Fibre Analysis : Quantitative	AATCC 20/20A ISO 1833 GB/T 2910 GB/T 2911 FZ/T 01053 SASO 781 AS 2001.7 FZ 01026 EU Directives.96/73/ EC 74/44/EEC	1 % to 100 %
2.	Garment /Fabric	Colour Fastness to Water	ISO 105 E01 GB/T 5713 AS 2001.4.E01 AATCC 107	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Water : Sea	ISO 105 E02 GB/T 5714 AS 2001.4.E02 CAN/CGSB-4.2 No.N21-490 AATCC 106	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Water: Chlorinated Pool	ISO 105 E03 GB/T 8433 AS/NZS 2001.4.5 CAN/CGSB-4.2 No. 52.2 AS 2001.4.5 AATCC 162	Qualitative (Grade 1 to 5) (±)1/2 Grade

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		Colour Fastness to Perspiration	ISO 105 E04 GB/T 3922 AS 2001.4.E04 AATCC 15 SASO 171	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to artificial light; Xenon arc fading lamp light	ISO 105 B02 GB/T 8427 SASO 169 AS 2001.4.B02	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Dry clean	ISO 105 D01 GB/T 5711 AATCC 132 SASO 2324	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Laundering Accelerated	BSEN ISO 105 C06 GB/T 12490 AATCC 61 SASO 2329 AS 2001.4.15 CAN/CGBS4.2 19.1 & 19.2	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to heat: Dry (Excluding Pressing)	BSEN ISO 105 P01 AATCC 117	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Saliva	35 LMBG 82.10 GB/T 18886 DIN 53160-1 DIN 53160-2	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Domestic and Commercial Laundering (low temperature bleach activator)	BSEN ISO 105 C08 BSEN ISO 105 C09	Qualitative (Grade 1 to 5) (±)1/2 Grade

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		Colour Fastness to Washing with Soap or Soap & soda.	BSEN ISO 105 C10 GB/T 3921	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Organic Solvents	BSEN ISO 105 X05	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Crocking : Crockmeter Method	BSEN ISO 105 X12 GB/T 3920 SASO 2330 AATCC 8 AATCC 165	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Determination of pH	ISO 3071 AATCC 81 GB/T 7573	1 to 14
		Flammability of Apparel Textiles	16 CFR 1610 ASTM D1230 CAN/CGSB 4.2 NO 27.5	Qualitative (Class 1 to 3)
		Tests for Colour Fastness - Part B07: Colour Fastness to light of textiles wetted with artificial perspiration	ISO 105 B07 GB/T 14576	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Dye Transfer in Storage ; Fabric -to-Fabric	AATCC 163 GB/T 22770	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Assessment of the ignitability of bedding items Ignition source Smoldering cigarette / Match-flame equivalent	ISO 12952 (Part 1 & 2)	Qualitative

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		Assessment of the Potential to Phenolic Yellowing of Materials	BS EN ISO 105 X18 ISO 105 X18	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Heat: Hot pressing	ISO 105 X11 GB/T 6152 AATCC 133	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Colour Fastness to Spotting: Water	ISO 105 E07	Qualitative (Grade 1 to 5) (±)1/2 Grade
3.	Fabric	Smoothness of Seams in Fabrics after Repeated Home Laundering	AATCC 88B	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Retention of Creases in Fabrics after Repeated Home Laundering	AATCC 88C	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Smoothness Appearance of Fabrics after Repeated Home Laundering	AATCC 124	Qualitative (Grade 1 to 5) (±)1/2 Grade
		Assessment of migration of textile colours into polyvinyl chloride coatings	ISO 105 X10	Qualitative (Grade 1 to 5) (±)1/2 Grade
II.	LEATHER MATERIALS			
1.	Leathers	Colour Fastness to Water Spotting	ISO 15700	Qualitative (Grade 1 to 5) (±)1/2 Grade
		pH of water extract from wet processed textiles	BS EN ISO 4045	1 to 14

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<u>MECHANICAL TESTING</u>				
I.	TEXTILE MATERIALS			
1.	Garment /Apparel	Mass Per Unit Area (Weight) of Fabric	BSEN 12127 ISO 3801 Method-05 GB/T 4669 BS 2471 AS 2001.2.13 ASTM D3776/D3776M Option-C	10 GSM to 500 GSM
		Number of threads per unit length in Woven Fabric Construction	ISO 7211-2 BSEN 1049-2 CAN/CGSB-4.2 No./N 6 SASO 183 ASTM D3775	10 per inch to 250 per inch
		Number of stitches per unit length and unit area (Stitch Density)	DIN EN 14971	20 per inch to 90 per inch
		Dimensional change in washing & Drying	CAN/CGSB 4.2 NO 58 ISO 5077 ISO 6330 GB/T 8629 GB/T 8630 GB/T 8628 AATCC 135 AS 2001.5.4 SASO 2140 GB/T 8878 Sec 5.4.2 AATCC 150	(±) 50 %

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		Dimensional change in washing & Drying	CAN/CGSB 4.2 NO 58 ISO 5077 ISO 6330 GB/T 8629 GB/T 8630 GB/T 8628 AATCC 135 AS 2001.5.4 SASO 2140 GB/T 8878 Sec 5.4.2 AATCC 150	(±) 50 %
		Water Repellency: Spray Test	BSEN ISO 4920 GB/T 4745 AATCC 22	Qualitative (Grade 0 to 5) (Grade 0 to 100)
		Tensile properties of Fabric	BS EN ISO 13934-1 AS2001.2.3.1 GB/T3923.1 SASO 2139 ASTM D5035	109 N to 2000 N
		Tensile properties of Fabrics	BS EN ISO 13934-2 AS 2001.2.3.2 GB/T 3923.2 ASTM D5034	109 N to 2000 N
		Slippage resistance of yarn at a seam in woven Fabrics	BS EN ISO 13936-1 GB/T 13772.1	109 N to 2000 N
		Slippage resistance of yarn at a seam in Woven Fabric	BS EN ISO 13936-2 GB/T 14272 GB/T 13772.2 GB/T 18132 Annexure A GB/T 2662 Section 4.4.7	109 N to 2000 N

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			GB/T 2664 Annexure A GB/T 2665 Annexure A GB/T 2666 Annexure B GB/T 2666 Section 4.4.11 AS2001.2.22	
		Seam Tensile Properties of fabrics and made up textiles articles	BS EN ISO 13935-2 AS 2001.2.20 ASTM D1683	109 N to 2000 N
		Tear force using ballistic pendulum method	BS EN ISO 13937-1 CAN /CGSB-4.2 No.12.3 AS2001.2.8	20 % to 80 % of Scale value used Scale value: 160 g to 5120 g
		Tear Strength by Elmendorf tear Method	GB/T 3917.1 ASTM D1424 SASO 2141	
		Tear force of trouser shaped test in specimen	BS EN ISO 13937-2 GB/T3917.2	1.1 kg to 203 kg
		Tear force of wing shaped test specimens (Single tear method)	BS EN ISO 13937-3	11.1 kg to 203 kg
		Dimensional Change of fabrics induced by free Steam	BS 4323	All Fabrics (Natural & Man-Made fibres) (±)50 % Sample size L 300 mm, W 50 mm
		Abrasion resistance of fabrics by Martindale method	BSEN ISO 12947-1 AS 2001.2.25.1 BSEN ISO 12947-2 AS 2001.2.25.2 BSEN ISO 12947-3 AS 2001.2.25.3	100 cycle to 50,000 Cycles (+) ½ Grade Weight Loss (0 to 25 %)

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			BSEN ISO 12947-4 AS 2001.2.25.4 ASTM D4966 GB/T 21196.1 FZ/T 20020	
		Fabric propensity to surface fuzzing and to pilling	BSEN ISO 12945-1 GB/T 4802.3 BSEN ISO 12945-2 GB/T 4802.2 GB/T 4802.1	Qualitative (Class 1 to 5) (+) ½ Grade
		Bursting Strength	BS EN ISO 13938-2 ASTM D3786	100 kPa to 900 kPa
		Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester	ASTM D3512	Qualitative (Grade 1.0 to 5.0)
		Pilling Resistance and Other Related Surface Changes of Textile Fabrics (Martindale Abrasion Tester Method)	ASTM D4970	Qualitative (Grade 1.0 to 5.0)
		Skewness change in fabric and garment twist resulting from automatic home Laundering	AATCC 179 ISO 16322-1, 2 & 3	0 to 50 % Skewness
		Determination of propensity of fabrics to snagging- Rotating Chamber Method	BS 8479	Qualitative (Class 1 to 5) (±) ½ Grade

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		Assessing Appearance of Apparel and other textile end products after domestic washing and drying	BSEN 15487 ISO 15487 ISO 7769 ISO 7770	Qualitative (Class 1 to 5) (±) ½ Grade
		Woven Fabric-Construction	ISO 7211-5	NA
		Elasticity of fabrics	EN 14704-1	Upto 5000 N
		Pilling Resistances Elastomeric Pad Pilling	ASTM D3514	Grade : 1to 5 on Photographic std.
2.	Textile Accessories	Zipper Strength Test[ASTM D2061 BS 3084 CI 5.3, 5.4, 5.6, 5.8, 5.9, 5.10 & 5.11	109 N to 2000 N
		Code of practice for the design and manufacture of children's clothing to promote mechanical safety	BS 7907 (Annex B)	1 N to 1765.8N
		Resistance to Unsnapping of Snap Fastener	ASTM D4846	1 N to 1765.8N
		Safety of Children's Clothing- Cords and drawstring on Children's Clothing	GB/T 22702	NA
3.	Fabric	Stretch Properties of Knitted Fabrics Having Low Power	ASTM D2594	5% to 100 %

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4.	Garment	Abrasion resistance of knitted footwear garments	BS EN 13770 METHOD 1	100 cycle to 50,000 Cycles (+) ½ Grade Weight Loss (0 to 25 %)