

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 26/05/08 Rev. No: 05 LAB 022
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Testing Laboratory

Accreditation Scope of Textile Testing International, 137, Block-A, Faisal Town, Lahore

Permanent laboratory premises

Materials/ Products tested	Types of test/ Properties measured	Range of measurement	Minimum detection limit	Uncertainty of Measurement (where applicable) MU (±)	Standard specification/ Techniques/ equipment used
Textile fabric/ products Textile	Dimensional changes after home laundrying	Nil - On actual behaviour of sample e.g. Nil - 25 %	0.2 %	± 0.48 %	AATCC 135 AATCC 150 BS EN 25077 ISO 5077 BS EN 3759 BS EN ISO 6330
	Skewness / Torque / Twisting	Nil - On actual behaviour of sample e.g. Nil - 25 %	0.2 %	± 0.48%	AATCC 179
	Color fastness to laundrying	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 61 ISO 105-CO1-C06
	Color fastness to crocking	Grade 1 - 5 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 8 ISO 105 X12
	Color fastness to light	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 16 ISO 105 B02
	Color fastness to perspiration	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 15 ISO 105 E04
	Color fastness to water (static wetting)	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 107 ISO 105 E01
	Flammability of apparel & clothing textile	Class 1- Class 3	Physical testing	Not applicable	16 CFR 1610 ASTM D1230
	Pilling resistance (Random Tumble)	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	ASTM D3512
	Martindale pilling	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	ASTM D4970 ISO 12945-2
	Bursting strength	30 PSI - 300 PSI	5 PSI	± 7.99 PSI	ASTM D3786 BS EN ISO 13938-1

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Textile fabric/ products Textile	Tensile strength	10 Kg - 400 Kg	0.1 Kg	L. Weight : ± 1.58 kgf M.Weight : ± 5.55 kgf H. Weight : ± 6.31kgf	ASTM D5034 ASTM D5035 BS EN ISO 13934-1 BS EN ISO 13934-2
	Tear strength (Elmendorf)	1000 g – 10000 g	32 g	L. Weight : ± 156.7 g H. Weight : ± 661.6 g	ASTM D1424 BS EN ISO 13937-1
	Martindale abrasion a. Colour Change b. Weight Loss c. Yarn Rupture d. Fuzziness & Pilling	a. Grade 1- 5 b. N.A c. N.A d. Grade 1- 5	a. ½ grade b. 0.1 mg c. N.A d. ½ Grade	Qualitative Test	ASTM D4966 BS EN ISO 12947 Part 1-4
	Fabric weight per unit area	21 g/m ² – 960 g/m ²	1 g/m ²	± 5.32 g/m ²	ASTM D3776 BS EN 12127
	Fabric count (ends / picks)	Range : Depends on quality of fabric	01	± 0.83	ASTM D3775 BS EN 1049-2
	Yarn count	2 - 136	0.5	10/S yarn ± 0.34 count 20/S yarn ± 0.64 count 30/S yarn ± 1.01 count	ASTM D1907
	Twist per inch (TPI)	Depend on quality & number of yarn	01	10/S yarn ± 1.74% 20/S yarn ± 1.40% 36/S yarn ± 1.63%	ASTM D1422
	Single yarn strength	2 N - 80 N	0.1 N	± 1.43 N	ASTM D2256 BS EN ISO 2062
	pH value	1 pH - 14 pH	0.01 pH	± 0.21 pH	AATCC 81 BS EN 1413
	Pilling resistance (ICI Pilling Box Method)	Grade 1- 5 1 being poor & 5 being excellent	½ grade	Not applicable	BS EN ISO 12945-1 EN ISO 12945-1 ISO 12945-1
	Water Repellency: Spray Test	AATCC: 100 - 0 BS EN ISO: ISO 5 - ISO 1 (Spray rating scale, Range 0-100, 0 being complete wetting of surface and 100 no wetting of surface)	Qualitative Test	Not applicable	AATCC 22 BS EN 24920 EN 24920 BS 3702 ISO 4920

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Textile fabric/ products Textile	Oil Repellency: Hydrocarbon Resistance Test	Oil Repellency Grade 0 - 8	Qualitative Test	Not applicable	AATCC 118
	Soil Release: Oily stain release method	Stain release grades 1 - 5 AATCC Stain Release Replica	Qualitative Test	Not applicable	AATCC 130
	Appearance of apparel & other textile end products after repeated home laundrying	Grade 5 - 1 Appearance Replicas, 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 143 ISO 15487
	Stiffness of Fabrics	1 kg - 50 kg	0.01 kgf	± 0.514 kgf	ASTM D4032
	Tear strength of Fabrics by the tongue(single rip) procedure	5 N- 2400 N	1 N	± 4N	ASTM D2261 ISO 13937-2
	Color fastness to Dry Cleaning	Rating 1 - 5 1 being poor & 5 being excellent	½ grade	Not applicable	AATCC 132 ISO 105-DO1
	Fiber Analysis : (Quantitative)	1% - 100 %	0.5 %	± 0.38 %	AATCC 20A BS 4407 ISO 1833 ASTM D629
	Fiber Analysis : (Qualitative)	Not applicable	Not applicable	Not applicable	AATCC 20 ASTM D276
	Formaldehyde	5ppm - 3000 ppm	1 ppm	< 125 ppm: 14.696 ppm > 125ppm: 16.612 ppm	AATCC 112 ISO 14184-1 ISO 14184-2
	Color fastness to Chlorine Bleach in Home Laundrying	Grade1-5 1 being poor & 5 being excellent	Qualitative Test	Not Applicable	AATCC 188
	Colourfastness to Non-Chlorine Bleach in Home laundrying	Grade 1-5 1 being poor & 5 being excellent	Qualitative Test	Not Applicable	AATCC 172
Determination of Bow and Skew in Woven and knitted Fabrics	Nil-On actual behaviour of sample e.g. Nil- 20%	0.1%	± 0.46%	ASTMD3882	

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	Determination of pH of Aqueous extract	1pH - 14 pH	0.01pH	± 0.21 pH	ISO3071
	Lead in Paint & surface coating (Total Lead in Substrate)	3ppm -10,000 ppm	1 ppm	<100 ppm ± 1.800 pm < 600 ppm ± 9.055 ppm	16 CFR 1303 in accordance with ASTM E1613-2004 ASTM E1645-2007

 Date

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