



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 26/05/08
Rev. No: 05
LAB 007

Testing Laboratory.

Accreditation Scope of SGS Textile Lab., Karachi, Pakistan

Permanent laboratory premises

Materials / products tested	Types of test/Properties measured	Range of measurement	Minimum detection limit	Uncertainty of Measurement t (where applicable) MU (±)	Standard specification/ Techniques/ Equipment used
All textile materials/ products	Fabric weight / Per Unit Area	0.5 cm ² – 100 cm ²	0.2 cm ²	0.4 g/cm ²	ASTM D3776 / ISO 3801
	Ends & Picks(Woven Fabric)	0.5 inch - 3 inch	¼ inches	Warp: 0.49inches Weft: 0.63inches	ASTM D3775
	Stitch Density (knitted Fabric)	0.25 inch - 3 inch	¼ inches	Warp: 0.49inches Weft: 0.72inches	ASTM D3887/ BS 5441
	Fabric Shrinkage	10 cm – 300 cm	1 cm	Warp: 0.22cm Weft: 0.42cm	AATCC 135/ ISO 3759-5077-6330
	Garment Shrinkage	300cm	1cm	Warp: 0.22cm Weft: 0.42cm	AATCC 150/ ISO 3759-5077-6330
	Appearance after wash	Replicas from 1 till 5, replicas for smoothness appearance of the fabric	Qualitative test as Assessment made visually by using the replicas	1.0	AATCC 124
	Skewness after wash	0.5 cm - 300cm	0.1cm	0.1 cm	AATCC 179
	Colour fastness to washing	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 61/ BSEN ISO 105:CO6, ISO 105 CO1-CO5
	Colour fastness to perspiration	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 15/ BS EN ISO 105-EO4
	Colour fastness to rubbing	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 8/ BS EN ISO 105*12

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	Colour fastness to water	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 107/ BS EN ISO 105 E01
All textile materials/ products	Colour fastness to sea water	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 106/ BS EN ISO E02
	Colour fastness to dry-cleaning	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	BS EN ISO 105 D01
	Colour fastness to Non Chlorine Bleach	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 172
	Tensile Strength a) Garb Method b) 2 inch strip	Max force: 1000N Three load range: a) 3000 N b) 600 N c) 120 N	0.1 N	ISO(Grab) Warp: 2.88N Weft: 1.52N ISO(Strip) Warp: 8.48N Weft: 3.33N ASTM(Grab) Warp: 3.82N Weft: 2.47N ASTM(Strip) Warp: 10.02N Weft: 2.69N	ASTM 5034/ ISO 13934-2 ASTM 5035/ISO 13934-1
	Bursting Strength	a) 0.1 kg/ cm ² - 8 kg/cm ² b) 1.0 kg/cm ² - 21 kg/cm ²	0.1 kg/cm ² 0.5 kg/cm ²	4.39 psi	ASTM 3786
	Seam Slippage	Max force: a) 3000N b) 600 N c) 120N	0.1 N	Warp: 2.03 N Weft: 3.17 N	ASTM 434/ BS 3320

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	Tearing Strength Elmatar	Pendulum A(1---8N) Pendulum B (1---16N) Pendulum C (1---32N) Pendulum D (1---64N)	0.1N	Warp: 0.25 N Weft: 0.22 N	ASTM D1424/ ISO 13937-1
	Spray rating test	Spray rating photograph, from 1 till 5 scale rating	Qualitative test as Assessment made visually by using the Spray rating photograph	1.0	AATCC 22/ ISO 4920
	Oil Repellency	Qualitative test as Assessment made by visually	Qualitative test as Assessment made by visually	1.0	AATCC 118
All textile materials/ products	Abrasion Resistance	Qualitative test as Assessment made by visually	Qualitative test as Assessment made by visually	1.0	Martindale ISO 12947-2
	Pilling Resistance	Pilling graph, from 1- 5 scale rating	Qualitative test as Assessment made visually by using the pilling photograph	1.0	Martindale ISO 12945-2 ICI Pilling Box ISO 12945-1
	pH of aqueous extract	0.5 - 14	0.1	AATCC: 0.018 ISO : 0.005	AATCC 81/ ISO 3071
	Soil Release Oily stain release method	Stain release replicas, from 1 - 5 scale rating	Qualitative test as Assessment made visually by using the stain release replicas	1.0	AATCC 130

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