

**Testing Laboratory**

Accreditation Scope of SGS Pakistan Textile Laboratory, Lahore, Pakistan

Permanent laboratory premises

Materials /Products tested	Types of test/ Properties measured	Range of measurement	Minimum detection limit	Uncertainty of Measurement (where applicable) MU ( $\pm$ )	Standard specification/ Techniques/ equipment used
All textile materials / products	.Fabric weight/Per Unit Area	0.5 cm <sup>2</sup> - 100 cm <sup>2</sup>	0.2 cm <sup>2</sup>	0.4 cm <sup>2</sup>	ASTM 3776/ISO 3801
	Ends & Picks(Woven Fabric)	0.5 inch - 3 inch	¼ inches	0.14 inch	STM D 3775
	Stitch Density(Knitted Fabric)	0.25 inch - 3 inch	¼ inches	0.14 inch	ASTM D 3887/BS 5441
	Fabric Shrinkage	10 cm - 200 cm	0.5 cm	1 cm	AATCC 135/ISO 3759-5077-6330
	Garment Shrinkage	10 cm - 200 cm	0.5 cm	1 cm	AATCC 150/ISO 3759-5077-6330
	Appearance after wash	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative (Assessment made visually by using the grey scales )	1.0	AATCC 124  AATCC 179
	Skewness after wash	0.2 cm - 200 cm	0.1cm	0.1 cm	
	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/BS EN 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
	Color 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 105X12
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	1.0	AATCC 107/BS EN ISO 105 EO1	

Date

Director

<b>Materials /Products tested</b>	<b>Types of test/ Properties measured</b>	<b>Range of measurement</b>	<b>Minimum detection limit</b>	<b>Uncertainty of Measurement (where applicable) MU (±)</b>	<b>Standard specification/ Techniques/ equipment used</b>
All textile materials / products	Color fastness to sea water	Grey Scale from 1 till 5, GS for color change and for staining	the grey scales  Qualitative test as Assessment made visually by using the grey scales	1.0	ATTCC 106/BS EN ISO 105 EO2
	Color 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 DO1
	Color fastness to Non Chlorine Bleach	Grey Scale from 1 till 5, GS for color change.	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC 172
	Tearing Strength. (Elmendorf)	Pendulum B 0.65 kg -1.63 kg Pendulum D 1.3kg - 6.52 kg	0.50 kg  1.3kg	0.01kg  0.01kg	ASTM D 1424/ISO 13937-1
	Spray rating test	Spray rating photographs, from 1 till 5 scale rating	Qualitative test as Assessment made visually by using the photographs.	1.0	AATCC 22/ISO 4920
	Pilling Resistance	Pilling photographs, from 1 till 5 scale rating	Qualitative test as Assessment made visually by using the pilling photographs	1.0	Random Tumble – ASTM D 3512
	Color fastness to light	Grey Scale from 1 till 5, GS for color change.	Qualitative test as Assessment made visually by using the grey scales	1.0	AATCC – 16

\_\_\_\_\_

Date

\_\_\_\_\_

Director

<b>Materials /Products tested</b>	<b>Types of test/ Properties measured</b>	<b>Range of measurement</b>	<b>Minimum detection limit</b>	<b>Uncertainty of Measurement (where applicable) MU (±)</b>	<b>Standard specification/ Techniques/ equipment used</b>
All textile materials / products	Tensile strength	Max force :10000 N <b>Two load range</b> a) 50 Kgf b) 1000 Kgf	1N 1N	2.0 N 2.0 N	ASTM D 5034/5035
	Abrasion	Qualitative test as Assessment made by visually.	Qualitative test as Assessment made by visually.	1.0	BS EN ISO 12947-2
	Tear strength (Single rib)	Max force :10000 N <b>Two load range</b> a) 50 Kgf b) 1000 Kgf	1N 1N	2 N 2 N	ASTM D 2261
	Tear strength (Trapezoid )	Max force :10000 N <b>Two load range</b> a) 50 Kgf b) 1000 Kgf	1N 1N	2 N 2 N	ASTM D 5587
	Phenolic Yellowing	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	Courtaulds research
	Tensile strength(Grab / strip method)-measure breaking force.(Newton-kg-lbf)	Max force :10000 N <b>Two load range</b> a) 50 Kgf b) 1000 Kgf	0.1 kgf or 1N 0.1 kgf or 1N	0.1 N 1.0 N	BS EN ISO 13934-1/2
	Pilling resistance-sample visual assessment is require.	2 - 999999 cycles (Qualitative test as Assessment made visually by using Pilling photographs )	1N1N	1.0	BSEN ISO 12945-2

Date

Director

<b>Materials /Products tested</b>	<b>Types of test/ Properties measured</b>	<b>Range of measurement</b>	<b>Minimum detection limit</b>	<b>Uncertainty of Measurement (where applicable) MU (±)</b>	<b>Standard specification/ Techniques/ equipment used</b>
All textile materials / products	Pilling resistance-sample visual assessment is require.	2-990000 (Qualitative test as Assessment made visually by using Pilling photographs)	Qualitative	1.0	BS 5811/ BS EN ISO 12945-1
	Tear strength	Max force : 10000 N <b>Two load range :</b> a) 50 Kgf b) 1000 Kgf	1N 1N	2 N 2 N	BS EN ISO 13937-2 /3
	Seam Slippage	Max force : 10000 N <b>Two load range :</b> a) 50 Kgf b) 1000 Kgf	a) 1N b) 1 N	2 N 2 N	BS 3320
	Colourfastness to chlorinated water	Grey Scale from 1 till 5, GS for color change and for staining	Qualitative ( Visual assessment)	1.0	BS EN ISO 105 EO3
	.Bursting strength	Max force : 10000 N Two load range : a) 50 Kgf b) 1000 Kgf	1N 1N	0.1 N 1.0 N	ASTM D 3787
	Bursting strength	Max force-Kpa 15 kpa – 1250 kpa	12.5 kpa	0.2 Kpa	BS EN ISO 13938-2

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director