

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 022
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Accreditation No: LAB 022

Awarded to

Textile testing international

a division of “Total Testing
Solutions Inc.”, 347-S, Quaid-e-Azam Industrial Estate, Kot Lakhpat, Lahore-
54770.

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **13-05-2006** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **11-05-2018**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

30-03-2017

Date

Director General

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Testing Laboratory.

Accreditation Scope of Textile Testing International, a division of “Total Testing Solutions Inc.”, 347-S, Quaid-e-Azam Industrial Estate, Kot Lakhpat, Lahore-54770.

Permanent laboratory premises

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Textile fabric / products	Physical	Dimensional changes after home laundering	AATCC 135:2012 AATCC 150:2012
			BS EN ISO 5077:2008 BS EN ISO 3759:2011 BS EN ISO 6330:2012
	Physical	Skewness changes / Garment twisting	AATCC 179 : 2012
	Physical	Colorfastness to Laundering; accelerated	AATCC 61 : 2013 ISO 105-C10 : 2006 ISO 105-C06 : 2010
	Physical	Colorfastness to Crocking	AATCC 8 : 2013 ISO 105-X12 : 2001
	Physical	Colorfastness to Light (Xenon Arc)	AATCC 16.3 : 2012 ISO 105-B02 : 2014
	Physical	Colorfastness to Perspiration	AATCC 15 : 2013 ISO 105-E04 : 2013
	Physical	Colorfastness to Water	AATCC 107 : 2013 ISO 105-E01 : 2013
	Physical	Flammability of apparel & clothing textiles	16 CFR 1610 ASTM D1230 - 10
	Physical	Pilling resistance (Random Tumble)	ASTM D3512/D3512M -10
	Physical	Pilling resistance (Martindale tester)	ASTM D4970/D4970M -10 ISO 12945-2 : 2000
	Physical	Bursting strength	ASTM D3786/D3786M -13 BS EN ISO 13938-1:1999
	Physical	Tensile strength	ASTM D5034 – 09 (2013) ASTM D5035 – 11 BS EN ISO 13934-1:2013 BS EN ISO 13934-2:2014

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	Physical	Tear strength (Elmendorf)	ASTM D1424-09 (2013) BS EN ISO 13937-1:2000
	Physical	Abrasion Resistance - Martindale a. Colour Change b. Weight Loss c. Yarn Rupture d. Fuzziness & Pilling	ASTM D4966 – 12 BS EN ISO 12947-1:1998 BS EN ISO 12947-2:1998 BS EN ISO 12947-3:1998 BS EN ISO 12947-4:1998
	Physical	Mass per unit area	ASTM D3776/D3776M – 09 (2013) BS EN 12127 : 1998
Textile Fabric / Products	Physical	Warp & filling count (ends / picks)	ASTM D3775 – 12 BS EN 1049-2 : 1994 ISO 7211-2 : 1984
	Physical	Yarn number by skein method (Yarn count)	ASTM D1907/D1907M -12
	Physical	Twist in yarn (TPI)	ASTM D1422/D1422M-13
	Physical	Yarn strength	ASTM D2256/D2256M–10 ISO 2062 : 2009
	Chemical	pH	AATCC 81 : 2012 ISO 3071 : 2005
	Physical	Pilling resistance (ICI Pilling Box)	BS EN ISO 12945-1:2001 EN ISO 12945-1 : 2000 ISO 12945-1 : 2000
	Physical	Water Repellency: Spray Test	AATCC 22 : 2010 BS EN ISO 4920 : 2012
	Physical	Oil Repellency: Hydrocarbon Resistance Test	AATCC 118 : 2013
	Physical	Soil Release: Oily stain release method	AATCC 130 : 2010
Textile Fabric / Products	Physical	Appearance after home laundrying	AATCC 143 : 2011 ISO 15487 : 2009
	Physical	Stiffness of fabrics	ASTM D4032 - 08 (2012)
	Physical	Tearing strength – Tongue (single rip)	ASTM D2261 - 13 ISO 13937-2 : 2000

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	Physical	Colorfastness to Dry Cleaning	AATCC 132 : 2013 ISO 105-D01 : 2010
	Chemical	Fiber Analysis : Quantitative	AATCC 20A : 2013 ISO 1833 ASTM D629 - 08
	Chemical	Fiber Analysis : Qualitative	AATCC 20 : 2013 ASTM D276 - 12
	Chemical	Formaldehyde	AATCC 112 : 2008 ISO 14184-1 : 2011 ISO 14184-2 : 2011
	Chemical	Colourfastness to Sodium Hypochlorite Bleach in Home Laundering	AATCC 188 : 2010
	Chemical	Colorfastness to Non-Chlorine Bleach in Home Laundering	AATCC 172 : 2010
Textile Fabric / Products	Physical	Bow and Skew in Woven and Knitted Fabrics	ASTM D3882 – 08 (2012)
	Chemical	Lead in Paint & surface coating	16 CFR 1303 CPSC-CH-E1003-09.1 Acid Digestion Method (ICP-OES / AAS)
	Chemical	Total Lead in children's metal products (including jewelry)	CPSC-CH-E1001-08.3 Acid Digestion Method (ICP-OES / AAS)
	Chemical	Total Lead in children's non-metal products	CPSC-CH-E1002-08.3 Acid Digestion Method (ICP-OES / AAS)
	Chemical	Nickel Release	EN 1811 : 2011
	Chemical	Determination of Cadmium	BS EN 1122 : 2001
	Physical	Determination of Spirality after laundering	ISO 16322-1 : 2005 ISO 16322-2 : 2005 ISO 16322-3 : 2005
	Physical	Stretch properties of woven fabric	ASTM D3107 - 07 (2011)
	Physical	Yarn number – short length specimen	ASTM D1059 - 01

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	Physical	Failure in sewn seams	ASTM D1683/D1683M-11
	Physical	Absorbency of textiles	AATCC 79 : 2010
	Physical	Colorfastness to Water Spotting	AATCC 104 : 2010 ISO 105-E07 : 2010
	Physical	Colorfastness to Sea Water	AATCC 106 : 2013 ISO 105-E02 : 2013
	Chemical	Aromatic amines from Azo colorants	BS EN 14362-1 : 2012 BS EN 14362-3 : 2012
Textiles / Plastics	Chemical	Determination of Phthalates	CPSC-CH-C1001-09.3
			BS EN 15777 : 2009
Child Safety Products	Physical	Small Parts	16 CFR 1501
	Physical	Torque Test	16 CFR 1500.50, 51, 53
	Physical	Tension Test	16 CFR 1500.50, 51, 53
	Physical	Sharp edge	16 CFR 1500.49
	Physical	Sharp Point	16 CFR 1500.48
Textile/ Plastic/ Leather/ Footwear	Chemical	Determination of Dimethyl Fumarate (DMFu)	ISO/TS 16168:2012
Leather	Chemical	Determination of pH	ISO 4045 : 2008 (IULTCS/IUC 11), SLC 13
	Chemical	Chromium (VI) content	ISO 17075 :2007, (IULTCS/IUC 18), SLC 22,
	Chemical	Formaldehyde content	ISO 17226-2 : 2008 (IULTCS/IUC 19-2), SLC 23
	Chemical	Chromic oxide content	ISO 5398-3 : 2007 (IULTCS/IUC 8:3)
	Physical	Thickness	ISO 2589 : 2002 (IULTCS/IUP 4), SLP 4

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	Physical	Tensile Strength & extension	ISO 3376 : 2011 (IULTCS/IUP 6), SLP6
	Physical	Tear load (Double edge tear)	ISO 3377-2 : 2002 (IULTCS /IUP 8), SLP7
	Physical	Tear load (Single edge tear)	ISO 3377-1:2011 (IULTCS/IUP 40-1), SLP 40
	Physical	Colorfastness to Water	ISO 11642 : 2012 (IULTCS/IUF 421)
	Physical	Colorfastness to Water Spotting	ISO 15700 : 1998 (IULTCS/IUF 420)
	Physical	Colorfastness to Washing	ISO 15702 : 1998 (IULTCS/IUF 435)
	Physical	Colorfastness to Mild Washing	ISO 15703 : 1998 (IULTCS/IUF 423)
Leather Material / products	Physical	Colorfastness to Dry Cleaning	ISO 11643 : 2009 (IULTCS/IUF 434), SLF 434
	Physical	Colorfastness to Perspiration	ISO 11641 : 2012 (IULTCS/IUF 426)
	Physical	Colorfastness to Crocking	ISO 20433 : 2012 (IULTCS/IUF 452), SLF 452
	Chemical	Aromatic amines from Azo colorants	ISO 17234-1 : 2010 (IULTCS/IUC 20-1); ISO 17234-2 : 2011 (IULTCS/IUC 20-2)
Petroleum	Physical	Flash & Fire Points – Cleveland open cup	ASTM D92 – 12b
	Chemical	Flash point – Pensky-Martens closed cup	ASTM D93 - 13
	Chemical	Kinematic Viscosity	ASTM D92 – 12b
	Chemical	Total acid number (TAN)	ASTM D93 - 13

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	Chemical	Total base number (TBN)	ASTM D2896 - 11
Leather & Gloves	Physical	Puncture Resistance	EN 388:2003
Leather	Chemical	Formaldehyde (by HPLC)	ISO 17226-1:2008
Textiles	Physical	Seam slippage – Fixed seam opening	ISO 13936-1:2004
Textiles	Physical	Seam slippage – Fixed load method	ISO 13936-2:2004
Textile	Chemical	Chlorinated phenols	LFGB B 82.02-8
Paint, Paper, Textiles, Leather, Wood	Chemical	Migration of certain elements	EN 71-3: 2013
Paint & plastics	Chemical	Total heavy metals	EPA 3052:2007
Leather	Chemical	Total metal contents	ISO 17072-2: 2011

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