

As an accredited laboratory, this laboratory is entitled to use the following accreditation symbol.


Valid from 17 May 2023
to 16 May 2024
Issued on 17 May 2023



ISO/ IEC 17025
TL 130-01

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment
Accreditation Number: TL 130-01

Modern Testing Services Lanka (Pvt) Ltd

Ground floor, No: 235/2, Hekitta Road
Wattala – 11300, Sri Lanka

Scope of Accreditation: Performing Chemical testing and Mechanical testing on Fabrics and Garments as per following methods

The laboratory is accredited for the following tests.

SI No.	Product(s) / Material of test	Specific tests performed	Test method / Standard against which tests are performed	Range of testing / Limits of detection
Chemical Testing				
1.1	Fabrics & Garments	Color fastness to domestic and commercial laundering	BS EN ISO 105-C06: 2010 ISO 105-C06: 2010	Grade 1 to 5 ± 0.5 Grade
1.2		Color fastness to domestic and commercial laundering using a non-phosphate detergent incorporating a low temperature bleach activator	ISO 105-C08: 2010	Grade 1 to 5 ± 0.5 Grade
1.3		Color Fastness to laundering accelerated	AATCC 61:2020	Grade 1 to 5 ± 0.5 Grade
1.4		Color Fastness to Dry Cleaning using perchloroethylene	AATCC 132:2013 BS EN ISO 105-D01:2010 ISO 105-D01: 2010	Grade 1 to 5 ± 0.5 Grade

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1.5	Fabrics & Garments	Color fastness to water	BS EN ISO 105-E01:2013 ISO 105-E01: 2013 AATCC 107: 2013	Grade 1 to 5 ± 0.5 Grade
1.6		Color fastness to Sea water	BS EN ISO 105-E02:2013 ISO 105-E02: 2013 AATCC 106:2013	Grade 1 to 5 ± 0.5 Grade
1.7		Color fastness to Perspiration	BS EN ISO 105-E04: 2013 ISO 105-E04:2013 AATCC 15: 2021	Grade 1 to 5 ± 0.5 Grade
1.8		Color Fastness to Rubbing (Crocking)	BS EN ISO 105:X12: 2016 ISO 105:X12: 2016 AATCC 8:2016	Grade 1 to 5 ± 0.5 Grade
1.9		Color Fastness to Rubbing (Rotary Crocking)	BS EN ISO 105:X16: 2016 ISO 105:X16: 2016 AATCC 116:2018	Grade 1 to 5 ± 0.5 Grade
1.10		Assessment of the potential to phenolic yellowing of materials	BS EN ISO 105:X18: 2007 ISO 105:X18: 2007	Grade 1 to 5 ± 0.5 Grade
1.11		Colorfastness: Dye Transfer in Storage; Fabric-to-Fabric	AATCC 163:2013	Grade 1 to 5 ± 0.5 Grade
1.12		Fiber Analysis: Qualitative	ISO 1833-8:2006 ISO 1833-1,3,12,18:2020 ISO 1833-4,7,11:2017 Eu No.1007/2011 AATCC 20:2021	Qualitative
1.13		Fiber Blend Analysis: Quantitative	ISO 1833-8:2006 ISO 1833-1,3,12,18:2020 ISO 1833-4,7,11:2017 Eu No.1007/2011 AATCC 20A-1,2,3,4,5,6,7:2021	2.0 % to 100 %
1.14		pH Value of Aqueous Extract	BS EN ISO 3071:2020 ISO 3071:2020 AATCC 81:2016	1 to 14
1.15		Dimensional change after washing for woven/Knitted fabrics & Garments	BS EN ISO 6330:2021 ISO 6330:2021 AATCC 135:2018 AATCC 150: 2018	-50 % to +50 %
1.16		Spirality after laundering for woven/knitted fabrics & garments	ISO 16322-1:2005 ISO 16322-2:2021 ISO 16322-3:2021	-15 % to +50 %
1.17		Skew change in fabric after home laundering	AATCC 179-2019	-15 % to +50 %
1.18		Smoothness Appearance of Fabrics after Repeated Home Laundering	AATCC 124:2018	Grade 1 to 5 ± 0.5 Grade
1.19		Appearance of Apparel and Other Textile End Products after Repeated Home Laundering	BS EN ISO 15487:2018 ISO 15487:2018 AATCC 143:2018 AATCC 88C:2018	Grade 1 to 5 ± 0.5 Grade

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1.20	Fabrics & Garments	smoothness appearance of seams in fabrics after cleansing	ISO 7770:2009 BS ISO 7768:2009 AATCC 88B:2018	Grade 1 to 5 ± 0.5 Grade
1.21		Formaldehyde Spot Test	AATCC 94:2020	Qualitative
1.22		Free & hydrolyzed Formaldehyde	ISO 14184-1:2011 BS EN ISO 14184-1:2011	1 mg/kg to 3500 mg/kg
1.23		Formaldehyde release from fabric	ISO 14184-2:2011 BS EN ISO 14184-2:2011 AATCC 112:2020	1 mg/kg to 3500 mg/kg
Mechanical Testing				
2.1	Fabrics & Garments	Breaking Strength Grab Method	BS EN ISO 13934-2:2014/ ISO 13934-2:2014 ASTMD 5034:2021	10N-4500N (1 kgf -450 kgf)
2.2		Tear Strength – Elmendorf type apparatus	BS EN ISO 13937-1:2000/ ISO 13937-1:2000 ASTM D 1424:2021	1.22 N to 108.8 N (0.124 kgf to 11.1 kgf)
2.3		Slippage resistance of Yarns in Woven fabric Fixed Seam Opening	BS EN ISO 13936-1:2004/ ISO 13936-1:2004	50N to 4500N (5 kgf to 450 kgf)
2.4		Slippage resistance of Yarns in Woven fabric Fixed load Method	BS EN ISO 13936-2:2004/ ISO 13936-2:2004	50N to 4500N (5 kgf to 450 kgf)
2.5		Failure in sewn seams	ASTM D 1683/D1683M-2022	50N to 4500N (5 kgf to 450 kgf)
2.6		Resistance to Slippage of yarns in woven fabric using standard seam	MTS-SL-IHTM 01 (Based on ASTM D 434-1995)	50N-4500N (5 kgf -450 kgf)
2.7		Residual Elongation & Extension	BS EN 14704-1:2005	0.01 to 25%
2.8		Stretch & Recovery	ASTM D 4964-96(2020)	0.01 to 300 %
2.9		Removal Force of Attached Components	PD CEN/TR 16792:2014 Annexure B	50N-4500N (5 kgf -450 kgf)
2.10		Fabric Propensity to surface fuzzing and to pilling – Pill box method	BS EN ISO 12945-1:2020 BS EN ISO 12945-4:2020 ISO 12945-1:2020 ISO 12945-4:2020	Grade 1 to 5 ±0.5 grade
2.11		Fabric Propensity to surface fuzzing and to pilling –Modified Martindale Method	BS EN ISO 12945-2:2020 BS EN ISO 12945-4:2020 ISO 12945-2 :2020 ISO 12945-4:2020	Grade 1 to 5 ±0.5 grade
2.12		Pilling Resistance- Random Tumble Pilling Method	ASTMD 3512/D3512M-10(2016)	Grade 1 to 5 ±0.5 grade
2.13		Fabric Weight (Mass Per Unit Area)	ISO 3801:1977 Option 5 BS EN 12127:1998 ASTM 3776/D3776M-2020 Option: C	20 gsm to 600 gsm (g/m ²)
2.14		Thread Per Unit Length Woven Fabric & Knitted Fabric	ISO 7211-2 :1984(E) ASTM D3775 -2017 MTS-SL-IHTM 02 (Based on ASTM D3887-96(2008))	80 to 800 threads/dm (20 to 200 threads/inch)

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2.15	Fabrics & Garments	Abrasion Resistance of Fabrics (Martindale Method) Specimen Break Down	BS EN ISO 12947-1:1999/ ISO 12947-1:1998 BS EN ISO 12947-2:2016/ ISO 12947-2:2016 ASTM D 4966: 2016 Option 1	50-99999Rubs
2.16		Abrasion Resistance of Fabrics (Martindale Method) Testing Specimen Mass Loss)	BS EN ISO 12947-3:1999/ ISO 12947-3:1998 ASTM D 4966 :2016 Option 3	0.5 % to 50 %
2.17		Abrasion Resistance of Fabrics (Martindale Method) Color/ Appearance Change	BS EN ISO 12947-4:1999/ ISO 12947-4:1998 ASTM D 4966 :2016 Option 2	Grade 1 to 5 ±0.5 grade
2.18		Fabric Width and Length	ISO 22198: 2006 ASTMD 3774 (96)-2018	10 cm to 200 cm
2.19		Bursting strength of Textile Fabrics Hydraulic Method	BS EN ISO 13938-1:2019 ISO 13938-1:2019 ASTM D3786M-18	30 PSI – 180 PSI (107 kPa to 1240 kPa)
2.20		Flammability of Apparel Textiles	16 CFR 1610 :2018 ASTM D1230-2022	2 s to 100 s
2.21		Flame Resistance of Textiles (Vertical Test)	16 CFR 1615 :2000 ASTM D6413/D6413M:2015	2 s to 100 s
2.22		Water Repellency: Spray Test	AATCC 22-2017 ISO 4920:2012	Rating 0 to 100 (ISO 0-5)
2.23		Water Resistance: Rain Test	ISO 22958:2021 AATCC 35:2018	0.01g to 10 g
2.24	Textile accessories	Tension Test	ASTM F 963-17 (8.9) 16 CFR 1500.50-53 EN 71. Part 1:2018 (8.4)	Qualitative
2.25		Torque Test	ASTM F 963-17(8.8) 16 CFR 1500.50-53 EN 71. Part 1:2018 (8.3)	Qualitative
2.26		Sharp Point (Under Force of 1 Pound)	ASTM F 963-17(4.8) 16 CFR 1500.48 EN 71-Part 1:2018(8.12)	Qualitative
2.27		Sharp Edge (Under Force of 1.35 Pound)	ASTM F 963-17(4.7) 16 CFR 1500.49 EN 71 (Part 1):2018(8.11)	Qualitative
2.28		Small Parts test	16 CFR 1501.4, ASTM F 963-17 (4.6) EN 71, part1:2018 (8.2)	Qualitative
2.29		Holding Strength of Prong-Ring Attached Snap Fasteners	ASTM D7142-2021	20 N to 300 N (2.0 kgf to 30 kgf)
2.30		Impact Resistance of Plastic Sew-Through Buttons	ASTM D 5171-15(2020)	Qualitative

Director / CEO

Sri Lanka Accreditation Board for Conformity Assessment