

# TECHNICAL CENTRE - TEXTILE SERVICES

CUSTOMER SATISFACTION IS OUR PRORITY

## TESTING CAPABILITY (LIST OF TESTS)

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TEST DESCRIPTION	STANDARD TEST METHOD	APPROX TIME FOR TESTING PER SAMPLE
<b>A - COMPOSITION / CONSTRUCTION TESTS:</b>		
<b>Fiber Composition &amp; Analysis</b>	Quantitative Analysis/AATCC 20A/ISO 1833	4 hours
<b>Moisture Content</b>	AATCC 20A	3 hours
<b>Construction Analysis Fabric Weight</b>	ASTM D 3776	6 hours
<b>Fabric Width</b>	ASTM D 3774	6 hours
<b>Ends &amp; picks (woven fabric)</b>	ASTM D 3775/ISO 7211	6 hours
<b>Wales &amp; Courses</b>	ASTM D 3887	6 hours
<b>B - ANALYTICAL TESTS:</b>		
<b>Water Analysis</b> <ul style="list-style-type: none"> <li>• TDS</li> <li>• Total Hardness</li> <li>• Magnesium Hardness</li> <li>• Calcium Hardness</li> </ul>	SCTC in house method	4 hours
<b>Formaldehyde content:</b> <ul style="list-style-type: none"> <li>• Released by sealed jar method</li> <li>• Free &amp; Hydrolyzed method</li> <li>• Spot Test</li> </ul>	*AATCC 112/ *ISO 14184-2	3 days
	*ISO 14184-1/ *Japanese law 112(JIS L1041)	1 day
	Adopted method	3 hours
<b>pH of Fabric</b>	*AATCC 81/ *ISO 3071	6 hours
<b>C - DIMENSIONAL STABILITY &amp; APPEARANCE TESTS:</b>		
<b>Dimensional Stability</b>	*ISO 6330/ *ISO 5077/ *ISO 3759 *AATCC 135/ AATCC 150	1-5 days
<b>Appearance</b>	*ISO 6330/ *ISO 7768 *AATCC 124	1-5 days

\*= All these tests have been accredited according to ISO/IEC 17025:2017

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TEST DESCRIPTION	STANDARD TEST METHOD	APPROX TIME FOR TESTING PER SAMPLE
<b>D - COLOR FASTNESS TESTS:</b>		
<b>Laundering</b>	*AATCC 61:1A, 2A, 3A, 4A & 5A. *ISO 105-C06 (A-E), C01, C03, C04, and C09 (Oxidative Bleach)	1 day
<b>Perspiration</b>	*AATCC 15/ *ISO 105 EO4.	2 days
<b>Dry and wet crocking</b>	*AATCC 8/ *ISO 105 X12	6 hours
<b>Light-Xenon Arc lamp</b>	*ISO 105 BO2	3 days
	*AATCC 16.3 @ 20 AFU	3 days
	*AATCC 16.3 @40 AFU	5 days
	*AATCC 16.3 @60 AFU	6 days
	*AATCC 16@80 AFU	8 days
<b>Water</b>	*AATCC107/*ISO 105 E01	2 days
<b>Chlorinated water</b>	ISO 105 EO3	3 days
<b>Chlorine Bleach</b>	ISO 105 N01	1 day
<b>Peroxide Bleach</b>	ISO 105 N02	1 day
<b>Phenolic yellowing</b>	ISO 105 X18	1-2 days
<b>Benzoyl Peroxide</b>	Adopted Method	4 & 8 days
<b>Dry cleaning</b>	ISO 105 DO1	3 days
<b>E - STRENGTH TESTS:</b>		
<b>Tensile Strength</b> • Grab test • Stripe test	ASTM D 5034/BS EN ISO 13934-2 ASTM D 5035/BS EN ISO 13934-1	1 day
<b>Tear Strength</b> • Elmendorf • Tongue	*ASTM D 1424/BS EN ISO13937-1 ASTM D 2261/BS EN ISO13937-4	1 day
<b>Seam Performance</b> • Slippage • Strength	ASTM D 434/BS 3320 ASTM D 1683/ISO 13935-1 & -2	1 day
<b>Bursting Strength (Diaphragm)</b>	ASTM D 3786/ISO13938-2	1 day

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TEST DESCRIPTION	STANDARD TEST METHOD	APPROX TIME FOR TESTING PER SAMPLE
<b>F - PERFORMANCE TESTS:</b>		
Water Drop Test	AATCC 193	6 hours
Water spray Test	*AATCC 22/ISO 4920	6 hours
Water Impact Test	AATCC 42	1 day
Soil Release Test	AATCC 130	1 day
Oil Repellency Test	AATCC 118/ISO 14419	6 hours
ICI Pilling	ISO 12945-1/BS 5811	3 days
Martindale Pilling	ISO 12945-2/ASTM D 4970	3 days
Random Pilling	ASTM D 3512	3 days
Abrasion Resistance Martindale	ISO 12947-1, 2, 3 & 4/ASTM D 4966/BS 5690	1-5 days
Snagging Resistance	ICI Snag Pod Method	1-5 days
Crease Recovery Angle	AATCC 66/ISO 22313	6 hours
Absorbency of Textiles	*AATCC 79	6 hours
Wicking Test	In-House Method	6 hours
<b>G - MISCELLANEOUS TESTS:</b>		
Extractable Content	AATCC 97	5 Days
Spectrophotometer reading/ L.A.B Values/ Color Difference/ DE C.I.E Values/ DE C.M.C Values	---	5 hours
CIE Whiteness Index/ Berger Whiteness Index/ Ganz Whiteness Index/ Hunter Whiteness Index	*AATCC 110	5 hours
Seam Smoothness & Crease Retention	*AATCC 88B & *AATCC 88C	1-5 days

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