

Laboratory Texanlab Laboratories Pvt. Ltd., 1st Floor, Shakti Tower, 55/56,
Bharathi Street, Valipalayam, Tirupur, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6801

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Validity 18.01.2018 to 17.01.2020

Last Amended on --

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

CHEMICAL TESTING

| I. | TEXTILE (WOVEN & NON WOVEN) | | | |
|----|--|---|--|----------------------------|
| 1. | Fabrics, Garments, Made-ups | Dimensional Changes to Domestic Washing and Drying | ISO 3759/ISO 6330/ ISO 5077 BS EN ISO 6330 AATCC 135 AATCC 150 | - 35% to +35% |
| | | Skewness change in Fabrics & Garment Twist Resulting from Automatic home Laundering | AATCC 179 ISO 16322-2/Cor.1(E) ISO 16322-3 | Up to 15% |
| 2. | Fibre/Filament/ Yarn/Cord/ Fabrics, Garments/ Carpets & Rugs | Color fastness to Washing | ISO 105 C 10 | Qualitative (Grade 1 to 5) |
| | | Color fastness to Domestic and Commercial Laundering | ISO 105 C 06(Except D2S & D3M) ISO 105 C08 AATCC 61(Except 4A & 5A) | Qualitative (Grade 1 to 5) |
| | | Color fastness to Dry Cleaning | ISO 105 D01 AATCC 132 | Qualitative (Grade 1 to 5) |
| | | Color fastness to Water | ISO 105 E01 AATCC 107 | Qualitative (Grade 1 to 5) |
| | | Color fastness to Sea Water | ISO 105 E02 AATCC 106 | Qualitative (Grade 1 to 5) |
| | | Color fastness to Perspiration (Acidic & Alkaline) | ISO 105 E04 AATCC 15 | Qualitative (Grade 1 to 5) |
| | | Color fastness to Rubbing (Crocking) Dry/Wet | ISO 105 X12 AATCC 8 | Qualitative (Grade 1 to 5) |

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| | | Quantitative Analysis of Binary Blends & Mixtures | ISO 1833-1 ISO 1833-1 Annexure B (Physical Separation) | |
| | | Polyurethane or Acrylic with other fibers | ISO 1833-12 | 1% to 100% |
| | | Polyester With Cotton or Viscose | ISO 1833 -11 | 1% to 100% |
| | | Cotton and Viscose | IS 1889 Part IV | 1% to 100% |
| | | Qualitative Analysis of Fibers | AATCC 20 | Qualitative |
| | | Quantitative Analysis of Fibers Polyurethane or Acrylic with other fibers Polyester With Cotton or Viscose Cotton and Viscose | AATCC 20A | 1% to 100% |
| | | pH of Aqueous Extract | ISO 3071 AATCC 81 | 1 to 14 |

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MECHANICAL TESTING

| I. | TEXTILE MATERIALS | | | |
|----|---|--|---|--|
| 1. | Fabrics, Textile floor Coverings (Carpets & Rugs) | Weight per unit area | ISO 3801 : Method 5 BS 2471 : Method 1 ASTM D 3776/D3776M -Option C | 25 g/m ² to 1000 g/m ² |
| | | Weight Per Unit Area (Oven Dry Weight) | DIN EN 12127 | |
| | | Weight per unit area | ISO 8543 | 100 g/ m ² to 6600 g/ m ² |
| 2. | Fabrics | Threads/Unit Length (Woven Fabric) | ISO 7211/ 2 (Method B) ASTM D 3775 | 10 per dm to 1000 per dm (3 Per Inch to 250 Per Inch) |
| | | Threads/Unit Length (Knitted Fabric) | BS 5441 ASTM D 3887 | |
| | | Linear Density of Yarn Removed From Fabric (Count Of Yarn) | IHTM-Texan(Tip)-1/SOP-01 (Validated against ISO 7211 Part 5) | 6 Tex to 120 Tex (5 ^S to 100 ^S Ne) |
| | | Fabric Propensity to Surface Fuzzing and To Pilling (ICI Pilling) (Modified Martindale) | ISO 12945-1 ISO 12945-2 ASTM D 4970/D4970 | Qualitative (Grade 1 to 5) |
| | | Abrasion Resistance (Martindale Method) Specimen Breakdown | BSEN ISO 12947 Part-2 ASTM D 4966 -Option 1 | 16 rubs to 80000 rubs |
| | | Abrasion Resistance (Martindale Method) Appearance Change | BSEN ISO 12947 Part-4 ASTM D 4966 Option 2 | Qualitative (Grade 1 to 5) |

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| 3. | Fabrics (Woven) | Tensile Strength of Fabrics (Strip Method) | ISO 13934-1 ASTM D 5035 | 10 N to 4500 N | |
| | | Tensile Strength of Fabrics (Grab Method) | ISO 13934-2 ASTM D 5034 | | |
| | | Resistance to slippage of Yarns-Std Seam | ASTM D 434 ISO 13936-1 | | |
| | | Failure in Seam | ASTM D 1683/D1683M | | |
| | | | Slippage resistance of Yarns at a seam-Fixed Load | ISO 13936-2 | 0.5 mm to 120 mm |
| | | | Maximum force to seam Rupture | ISO 13935-2 | 10 N to 4500 N |
| | | | Tearing Strength of Fabrics (Elmendorf) | ISO 13937-1/ ASTM D 1424 | 160 g to 5760 g |
| | | | Tearing Strength (Single Rip Method) | ISO 13937-2 ASTM D 2261 | 5 N to 500 N |
| 4. | Yarns | Linear Density by Skein Method | ASTM D 1907 ISO 2060 | 6 Tex to 120 Tex (5 ^s Ne to 100 ^s Ne) | |
| | | Breaking Strength of Yarn by Skein Method | ASTM D 1578 | 10 N to 4500 N [2 lb to 1100 lb] | |
| 5. | Garment & Fabric | Bursting Strength (Hydraulic Method) | BS EN ISO 13938-1 | 140 kPa to 5492 kPa (1.4 kg/ cm ² to 56 kg/ cm ²) | |