

Laboratory Central Institute for Research on Cotton Technology (Indian Council of Agricultural Research), Adenwala Road, Matunga, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Mechanical Testing **Issue Date** 02.03.2014

Certificate Number T-0610 **Valid Until** 01.03.2016

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| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-------|----------------------------|-------------------------|---|--|
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I. TEXTILE & RELATED PRODUCTS

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|----|--------|---|-------------------------------------|---|
| 1. | Fibres | Trash content of cotton (Gravimetric trash analysis) | IS 4871:1968, (RA 2004) | 0.2% to 30% |
| | | Length, length uniformity, Micronaire and Tenacity of Cotton fibres (Zellweger HVI testing) | ASTM D-5867: 2012 | 2.5% span length/UHML length: 14 mm to 40 mm UR: 40% to 60% Mic: 2 units to 8 units Tenacity : ICC 15 g/t to 50 g/t |
| 2. | Yarn | Twist in yarn (TPI) | IS 832: 1985, Amd I & II, (RA 2010) | 2 TPI to 60 TPI |
| | | Linear density of yarn (count) | IS 1315:1977, Amd I, (RA 2010) | (2 ^s to 160 ^s) Ne |
| | | Lea strength parameters of yarn | IS 1671:1977, (RA 2004) | 10 kg to 50 kg |
| | | Unevenness of textile strand | ASTM D-1425 : 2009 | U %: 5 to 30.0 |
| | | Imperfections per unit length in yarn (per km) | CIRCOT YT-1/ 2013 | Thin places: 0 to 5000 Thick places: 0 to 5000 Neps : 0 to 5000 |

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| 3. | Fabric | Threads per unit length in woven fabrics | IS 1963 : 1998, RA 2004 | (10 to 150) per 25 mm (per inch) |
| | | Weight per square meter/ linear meter of fabrics | IS 1964 : 2001, (RA 2006) ASTM D3776-96 (Rev 2013) | 30 g/m ² to 1kg/m ² 10 g/m ² to 250 g/m ² |
| | | Linear density of threads removed from fabrics | IS 3442:1980, Amd I, (RA 2004) | (2 ^s to 160 ^s) Ne |
| | | Twist of yarns (TPI) removed from fabrics | IS 832 : 1985, Amd I & II, (RA 2010) | 2 TPI to 60 TPI |
| | | Breaking Strength (Raveled Strip) | IS 1969 : 1985, Amd I, (RA 2006) | Strength: 2 kg to 2800 kg |
| | | Dimensional Changes (Other than wool) | IS 2977 : 1989, Amd I, (RA 2005) | -0.25% to 25% |
| | | Length and Width of materials | IS 1954 : 1990, (RA 2002) | 10 cm to 500 cm |

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