

The South India Textile Research Association

Please note that the physical testing of fibre, yarn and fabric will be carried out in the following standards unless otherwise mentioned in the request letter.

FABRIC TESTING

No.	Tests	Standard Test Procedure
1.	Yarn Count – <i>Yarn Number Based on Short-Length Specimens</i>	ASTM D 1059-01
2.	Tearing Strength in Elmendorf Method - <i>Tearing Strength of Fabrics by Falling Pendulum Type (Elmendorf) Apparatus</i>	ASTM D 1424-2009
3.	Ends/Picks - <i>Fabric Count of Woven Fabric</i>	ASTM D 3775-08 & IS-1963-1981 (Reaffirmed 2008)
4.	Mass Per Unit Area (Fabric Weight) - <i>Mass Per Unit Area (Weight) of Fabric</i>	ASTM D 3776 – 09 (Option-C) & IS 1964-2001 Reaffirmed 2010
5.	Yarn Crimp% in Fabric - <i>Yarn Crimp of Yarn Take up in Woven Fabrics</i>	ASTM D 3883-04 – (2012)
6.	Breaking Force and Elongation in Strip Method (Tensile Strength)	ASTM D 5035-11 & IS 1969-1985 (Reaffirmed 2010)
7.	Breaking Force and Elongation in Grab Method (Tensile Strength)	ASTM D 5034-09
8.	Stiffness - <i>Determination of Stiffness of Cloth : Warp Bending Length & Weft Bending Length</i>	BS 3356-1990
9.	Assessment of Drape - <i>Method for the Assessment of Drape of Fabrics - Drape Coefficient</i>	Source : BS – 5058 : 1973
10.	Pilling Test - <i>Method of Determination of Pilling Resistance of Fabrics</i>	IS:10971-1984 (Reaffirmed 2010)
11.	Stiffness – <i>Stiffness of Fabric by the Circular Bend Procedure</i>	ASTM D –4032-08 (2012)
12.	Width of fabric - <i>Width of Textile Fabric</i>	ASTM D –3774-96 (2012) (option-B)

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No.	Tests	Standard Test Procedure
13.	Thickness of fabric - <i>Determination of Thickness of Woven & Knitted Fabrics</i>	IS 7702-1975 (Reaffirmed 2012)
14.	Bursting Strength - <i>Determination of Bursting Strength and Bursting Distension of Fabrics: Diaphragm Method</i>	IS 1966-1975 (Reaffirmed 2006)
15.	Air permeability in fabric	ASTM D 737-04 (2012)
16.	Water Resistance - <i>Water Resistance : Hydrostatic Pressure Test</i>	AATCC-127:2003 Option 2
17.	Liquid Strike Through Time - <i>Non-Woven Cover stock (Baby Diaper)</i>	EDANA 150.5-02
18.	Wet back - <i>Non-Woven Cover stock (Baby Diaper)</i>	EDANA 151.2-99

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YARN TESTING

No.	Tests	Standard Test Procedure
1.	<p>Twist in Single Yarn - <i>Twist in Single Spun Yarns by Untwist – Retwist Method</i></p> <p>Twist in Double Yarn - <i>Twist in yarn by direct counting</i></p>	<p>ASTM D 1422-1999 (Reaffirmed 2008)</p> <p>ASTM D 1423/2002 (Reaffirmed 2008)</p>
2.	<p>U% Imperfection (Unevenness) - <i>Unevenness of Textile Strands using Capacitance Testing Equipment</i></p>	ASTM D 1425M-2009e1
3.	<p>Lea Count - <i>Linear Density of Yarn (Yarn Number) by the Skein Method</i></p> <p>Lea Strength - <i>Breaking Strength of Yarn in Skein Form</i></p>	<p>ASTM D 1907M-12</p> <p>ASTM D 1578-93 (2011)</p>
4.	<p>Appearance - <i>Grading Spun Yarns for Appearance</i></p>	ASTM D 2255M-2009
5.	<p>Co-efficient of Friction - <i>Co-efficient of Friction, Yarn to Solid Material</i></p>	ASTM D-3108-07
6.	<p>Hairiness – Zweigle - <i>Measuring Hairiness of Yarn by the Photo-Electric Apparatus</i></p>	ASTM D 5647-07 (2012)
7.	<p>Single Yarn Strength (UTR-3) - <i>Single Yarn Tensile Characteristics</i></p>	Uster Standard Method & ASTM D 2256M-2010e1
8.	<p>Classimat Fault (UCM III,Quantum,UCM-5) - <i>Classifying and Counting Faults in Spun Yarns in Electronic Tests</i></p>	ASTM D 6197-99 (Reapproved 2011)
9.	<p>Single Yarn Strength (UTJ4) - <i>Single Yarn Tensile Characteristics by Uster Tensojet-4</i></p>	Uster Standard

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FIBRE TESTING

No.	Tests	Standard Test Procedure
1.	Trash Content - Non-Lint Content of Cotton	ASTM D 2812-07 (2012)
2.	Single Fibre Length - Over Length Fibre Content of Man-Made Fibres Determination of Fibre Length	BISFA 1998 Chapter-5
3.	Denier & Single Fiber Tenacity (SFT) - Denier & Tensile Properties of Single Textile Fibres	ASTM D 3822-07 & BISFA –1998 (Chapter-6)
4.	Crimp - Man Made Fibres - Crimp Frequency of Man Made Fibres	ASTM D 3937-2012
5.	Neps in Cotton Fibres (AFIS-N), Length & Maturity (AFIS L&M)	ASTM D 5866-05, Uster Standard Method
6.	<i>All cotton properties in High Volume Instrument (Spectrum)</i> (Length, Strength,Mic,Trash,Colour)	ASTM D 5867-2012
7.	Fibre Maturity – Methods for Determination of Cotton Fibre Maturity (by Sodium Hydroxide Swelling Method)	IS:236:1968 (Reaffirmed 2010)
8.	Moisture Test - Methods for Determination of Commercial Mass of Consignments of Textiles – Part I Mass Determination and Calculations Moisture Content & Moisture Regain	ISO 6741-1:1989