



NABL

National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

SASMIRA, THE SYNTHETIC & ART SILK MILLS RESEARCH ASSOCIATION

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

MUMBAI

in the field of

MECHANICAL TESTING

Certificate Number

T-0763

Issue Date

27/11/2009

Valid Until

26/11/2011

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran

Convenor

Dr B. Hari Gopal

Director

Dr T. Ramasami

Chairman

Laboratory SASMIRA, The Synthetic & Art Silk Mills Research Association, Mumbai

Accreditation Standard ISO/IEC 17025:2005

Field Chemical Testing **Issue Date** 27.11.2009

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Last Amended on - **Page** 1 of 3

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
1.	Fibre / Yarn / Fabric	Identification of textile fibres	IS:667-1981 Reaffirmed 2008	-
2.	Fibre / Yarn / Fabric	Percentage composition of binary mixture of protein fibre with certain other non-protein fibres (Method based on clean dry mass)	IS:2006-1988 Reaffirmed 2004 (SASMIRA IHM-01 & 03)	0 - 100
3.	Fibre / Yarn / Fabric	Percentage composition of binary mixture of regenerated cellulose and cotton (Method based on clean dry mass)	IS:1889-1979 Part IV, Sulphuric Acid Method, Reaffirmed 2005 (SASMIRA IHM-01 & 03)	0 - 100
4.	Fibre / Yarn / Fabric	Percentage composition of binary mixture of nylon 6 or nylon 6,6 with other fibres (Method based on clean dry mass)	IS:2005-1988 Reaffirmed 2008 (SASMIRA IHM-01 & 03)	0 - 100
5.	Fibre / Yarn / Fabric	Percentage composition of binary mixture of polyester fibre with cotton and regenerated cellulose (Method based on clean dry mass)	IS:3416-Part 2-2008 (SASMIRA IHM-01 & 03)	0 - 100
6.	Fibre / Yarn / Fabric	Determination of pH value of aqueous extract of textile materials	IS:1390-1983 Reaffirmed 1999	1 to 14

7. Yarn / Fabric	Determination of colourfastness of textile materials to washing at 40°C i) change in shade ii) staining on adjacent fabric	Test 1 IS:687-1979 Reaffirmed 2008	Rating from 1 to 5 Rating from 1 to 5
8. Yarn / Fabric	Determination of colourfastness of textile materials to washing at 50°C i) change in shade ii) staining on adjacent fabric	Test 2 IS:3361-1979 Reaffirmed 2004	Rating from 1 to 5 Rating from 1 to 5

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Field Chemical Testing **Issue Date** 27.11.2009

Certificate Number T-0762 **Valid Until** 26.11.2011

Last Amended on - **Page** 2 of 3

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9.	Yarn / Fabric	Determination of colourfastness of textile materials to washing at 60°C i) change in shade ii) staining on adjacent fabric	Test 3 IS:764-1979 Reaffirmed 2008	Rating from 1 to 5 Rating from 1 to 5
10.	Yarn / Fabric	Determination of colourfastness of textile materials to washing at 95°C for 30 minutes i) change in shade ii) staining on adjacent fabric	Test 4 IS:765-1979 Reaffirmed 2008	Rating from 1 to 5 Rating from 1 to 5
11.	Yarn / Fabric	Determination of colourfastness of textile materials to washing at 95°C	Test 5 IS:3417-1979 Reaffirmed 2003	

		for 4 hours i) change in shade ii) staining on adjacent fabric		Rating from 1 to 5 Rating from 1 to 5
12. Fibre / Yarn / Fabric	Determination of colourfastness of textile materials to artificial light (xenon lamp) Rating on blue wool scale	IS:2454-1985 Reaffirmed 2006		Rating from 1 to 8
13. Fibre / Yarn / Fabric	Determination of colourfastness of textile materials to perspiration (Acidic & Alkaline) i) change in shade ii) staining on adjacent fabric	IS:971-1983 Reaffirmed 2004		Rating from 1 to 5 Rating from 1 to 5
14. Fibre / Yarn / Fabric	Determination of colourfastness of textile materials to dry-heat (using Fix-o-test instrument)	IS:4636-1988 Reaffirmed 1999		Rating from 1 to 5 (Staining on adjacent fabric)
15. Fabric	Determination of water repellency of fabrics by cone test	IS:7941-1976 Reaffirmed 1999		1 ml to 400 ml

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Field Chemical Testing **Issue Date** 27.11.2009
Certificate Number T-0762 **Valid Until** 26.11.2011
Last Amended on - **Page** 3 of 3

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16.	Fabric	Determination of water repellency of fabrics by water spray test	IS:390-1975 Reaffirmed 1997	Rating from 0 to 100
17.	Fabric	Determination of rubbing fastness of textile materials (Dry and Wet)	IS:766-1988 Reaffirmed 2004	Rating from 1 to 5 (Staining on Standard fabric)
18.	Fabric	Colour fastness to water	IS:767-2004 AATCC 107-2007 ISO 105-E01:1996	Rating from 1 to 5 (Staining on Standard fabric)
19.	Fabric	Colour fastness to sea water	IS:690-2004 AATCC 106-2007 ISO 105-E02:1996	Rating from 1 to 5 (Staining on Standard fabric)
20.	Fabric	Colour fastness to organic solvents	IS:688-1988 RA 2004 ISO 105-X05:2001	Rating from 1 to 5 (Staining on Standard fabric)
21.	Fabric	Colour fastness to perspiration	AATCC 15-2007 ISO 105-E04:2008	Rating from 1 to 5 (Staining on Standard fabric)
22.	Fabric	Colour fastness to crocking / rubbing	AATCC 8-2007	Rating from 1 to 5 (Staining on Standard fabric)
23.	Fabric	Dimensional changes on soaking in water	IS:2977-1989 RA 2005	0 to 100%

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Field Mechanical Testing **Issue Date** 27.11.2009
Certificate Number T-0763 **Valid Until** 26.11.2011
Last Amended on - **Page** 1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
1.	Fabrics	Determination of breaking load and elongation of woven textile fabrics	IS:1969-1985 Reaffirmed 2006	1 N-100 KN Elongation Max. 200%
2.	Fabrics	Determination of bursting strength and bursting distension of fabrics: diaphragm method	IS:1966-1975 Reaffirmed 2006	6-65 kg/cm ²
3.	Fabrics	Determination of pilling resistance of fabrics	IS:10971-1984 Reaffirmed 2006	1-5 rating
4.	Yarns	Textiles-yarn-determination of breaking load and elongation at break of single strand	IS:1670-1991 Reaffirmed 2002	5N-45 N 10-90 N 1N-10 KN Elongation Max. 200%
5.	Yarns	Determination of yarn strength parameters of yarns spun on cotton system	IS:1671-1977 Reaffirmed 2004	5 - 45 N 10 -90 N 50 - 900 N
6.	Fabrics	Determination of length and width of woven fabrics	IS:1954-1990 Reaffirmed 2002	Max. 6 mtrs.
7.	Fabrics	Determination of thickness of woven and knitted fabrics	IS:7702-1975 Reaffirmed 2006	0.01-9 mm
8.	Fabrics	Determination of mass per unit length and mass per unit area in woven fabrics	IS:1964-2001 Reaffirmed 2006	Max. 210 g
9.	Fabrics	Determination of threads per unit length in woven fabrics	IS:1963-1981 Reaffirmed 2004	Max. 3000/dn

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Field Mechanical Testing **Issue Date** 27.11.2009

Certificate Number T-0763 **Valid Until** 26.11.2011

Last Amended on - **Page** 2 of 2

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10.	Yarn	Determination of crimp and count of yarn removed from fabrics	IS:3442-1980 Reaffirmed 2004	Count : 0.01 to 150 Ne Denier : 10 to 3000 Crimp: Max. 100%
11.	Fabric	Determination of recovery from creasing of textile fabrics by measuring the angle of recovery	IS:4681-1981 Reaffirmed 2004	20° to 180°
12.	Yarn	Methods of test for man-made fibres continuous filament flat yarn – Linear Density	IS:7703, Part 1, 1990 Reaffirmed 2002	≤ 1,000 denier
13.	Yarn	Determination of linear density of yarns spun on cotton system	IS:1315-1977 Reaffirmed 1999	≤ 150 Ne
14.	Yarn	Determination of twist in yarn	IS:832-1985 Reaffirmed 2006	Upto 3500 tpm
15.	Yarn	Methods of test for continuous filament polyester and polyamide flat yarn unevenness percentage	IS:7703, Part 5, 1987 Reaffirmed 2004	U% & CV% 0.2 to 50%
16.	Fibres	Methods of tests for man-made staple fibres determination of Length	IS:10014-1984, Part 1, Reaffirmed 2004	Max. 1 m
17.	Fabric	Test method for failure in sewn seams of woven fabrics	ASTM D 1683:2007	0 to 50 kg
18.	Fabric	Determination of seam slippage and determination of seam strength	ISO 13936:1:2004 ISO 13935-2:1999	0 to 50 kg

