

# SASMIRA

## TESTING LABORATORY FOR AGROTEXTILES

S.N	TEST PARAMETERS	TEST STANDARD
1.	Mass per unit area	ASTM D 5261, ASTM D 3776, IS 1964
2.	Thickness	ASTM D1777, IS7702
3.	Tensile strength (wide width)	ISO 10319
4.	Tensile strength (Strip test)	ASTM D5035, ISO 13934 Part-I
5.	Grab test	ASTM D 5034, IS 1969
6.	UV resistance (Weatherability)	ASTM D 4355, ASTM G 154, IS 7903
7.	Index Puncture resistance test	ASTM D 4833
8.	CBR	ASTM D 6241
9.	Water permeability	ASTM D 4491
10.	Apparent opening size	ASTM D 4751
11.	Water vapour permeability	ASTM E 96
12.	Impact Resistance test	ASTM D 1709
13.	Bursting strength test	ASTM D 3786, IS 1966
14.	Air permeability test	ASTM D 737, IS 11056
15.	Flame retardancy	IS 11871
16.	Colour Fastness to light	IS 2454
17.	Water repellency	IS 391
18.	Seam strength	ASTM D 1683
19.	Resistance to Flexing Tester	IS 7016 part IV
20.	Identification	IS 667
21.	Resistance to extreme temperatures	Visual observation
22.	Light transmission % Light Shading percentage	ASTM D 1003
23.	Wind Blockage %	SASMIRA standard method
24.	Soil Burial test	ISO 846- 1997, AATCC-30- 1999
25.	Anti microbial test - Qualitative	AATCC 100
26.	Anti microbial test - Quantitative	AATCC-147

For Details Contact:  
 Executive Director, SASMIRA  
 SASMIRA Marg, Worli Mumbai – 400 030  
 Tel: 022-24935351 Fax: 022-24930225  
 Email: [sasmira@vsnl.com](mailto:sasmira@vsnl.com), website: [www.sasmira.org](http://www.sasmira.org)

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## SPECIFICATIONS FOR AGROTEXTILES

### SHADE NET FABRICS

Sr. No	Characteristic(s)	Type I 50 % Shading	Type II 75 % Shading	Type III 90 % Shading	Methods of Tests
1.	Weight/square meter g	Minimum 90	Minimum 120	Minimum 150	IS 1964
2.	Tensile Strength N	250 – 350	350 - 450	Min. 500	IS 1969
3.	Bursting strength, kg/cm <sup>2</sup>	Minimum 5.5	Minimum 6.0	Minimum 8.0	IS 1966
4.	UV Accelerated exposure testing	Less than 2 %	Less than 2 %	Less than 2 %	IS 1969
5.	Light shading percentage	50 - 56	70 - 80	87 - 93	ASTM D1003
6.	Colour fastness to light	Minimum 4	Minimum 4	Minimum 4	IS 2454

### WOVEN GROUND COVERS

Sr. No	Characteristic(s)	Minimum Requirements	Methods of Tests
1.	Weight/square meter, g	100	IS 1964, ISO 7211/6
2.	Thickness, mm	0.28	IS 7702, ISO 9863-1&2
3.	Tensile Strength (Grab), Kgf Warp way Weft way	65 35	ISO 13937 Part-I & 2
4.	Tear strength woven, kgf Warp way Weft way	30 20	IS 13937 – 1 & 2
5.	Air Permeability, cft/ft <sup>2</sup> /s	20	IS 11056, ISO 9237
6.	Puncture Resistance, kgf Index	30	- ISO 12236
7.	UV Accelerated exposure testing, % Strength retained	70%	ASTM D 4355 IS 7903 Annex B
8.	Water permeability lt/sq.m/sec	7	IS 14324, ASTM D 4491
9.	Water vapor permeability, gm/m <sup>2</sup> /day	730	ISO 11092 , ASTM E 96