



Shriram Institute for Industrial Research

Delhi Campus: 19, University Road, Delhi -110007; Email: customercare@shriraminstitute.org
Bengaluru Campus: 14-15, Sadarmangla Indl. Area, Whitefield Road, Bengaluru - 560048

SIIR Research and Analysis Facilities for Textile and Textile based Products

S.No.	CHARACTERIZATION FACILITY FOR TEXTILE & ALLIED PRODUCTS
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A	APPAREL		
1	Coat/ Sweater	20	Towel
2	Jackets/ Jersey	21	Umbrella
3	Rain Coat/ Wind Cheater	C	INDUSTRIAL TEXTILE
4	Sarees/ Salwar Suits/ Duppata	22	Bitumen Felts
5	Shirts/ Trousers	23	Coated Fabric
6	Shoe/ Socks	24	Cotton Canvas/ Ducks
7	Thermals/ Scarf/ muffler	25	Geotextile
8	T-shirts/ Jeans/ Shorts	26	HDPE/ PP Bags
9	Undergarments	27	Jute/ Cotton Bags
10	Uniform	28	Parachute Fabric
B	HOUSEHOLD TEXTILE	29	Tarpaulin
11	Beading & Curtains	30	Woolen Felts
12	Bed sheets/ Pillows/ Blanket	31	Woven/ Non-woven Fabric
13	Bedsread/ Upholstery	D	MISCELLANEOUS
14	Carpet & Rugs	32	Cotton Bandage/ Padding
15	Cotton Wicks	33	Elastic Tape/ Velcro
16	Curtains/ Vanishing Blinds	34	Expanded Yarn/ Rope
17	Home Furnishing Fabrics	35	Sanitary Napkin
18	Mosquito Net	36	School/ Laptop/ Tracking Bags
19	Sleeping Bags	37	Surgical/ Crepe Bandage
		38	Yarn/ Thread/ Cord/ Twin

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S.No.	FACILITY OF CONDUCTING TEST PARAMETERS FOR TEXTILE & ALLIED PRODUCTS
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A	CHEMICAL
1	Burning Rate
2	Chloride content
3	Colour / Colour difference
4	Colour fastness - Dry Cleaning
5	Colour fastness - Organic Solvent
6	Colour fastness - Perspiration
7	Colour fastness - Rubbing
8	Colour fastness - Water
9	Dimensional change due to Washing
10	Dimensional change due to Water
11	Flame Resistance
12	Flame Spread Properties
13	Flammability - Angular
14	Flammability - Horizontal
15	Flammability - Vertical
16	Identification and Composition of Acrylic
17	Identification and Composition of Cellulose acetate
18	Identification and Composition of Cotton
19	Identification and Composition of Nylon
20	Identification and Composition of Polyester

21	Identification and Composition of Polypropylene
22	Identification and Composition of Viscose
23	Identification and Composition of Woolen
24	Moisture Content
25	pH of water extract
26	Proofing Content
27	Solvent Extractable Matter
28	Sulphate content

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B	Elemental Analysis
29	Antimony
30	Aluminum
31	Arsenic,
32	Barium
33	Cadmium
34	Calcium
35	Chromium
36	Cobalt
37	Copper
38	Iron
39	Lead
40	Magnesium
41	Manganese
42	Mercury
43	Molybdenum
44	Nickel
45	Phosphorus
46	Potassium
47	Selenium
48	Silica
49	Sodium
50	Tin

51	Titanium
52	Vanadium
53	Zinc
54	Zirconium
C	PHYSICO-MECHANICAL PROPERTIES
55	Abrasion resistance
56	Absorbency
57	Accelerated aging
58	Anti-staticity
59	Ball Burst
60	Block resistance
61	Blocking resistance
62	Breaking strength of fabric
63	Breaking strength of seam
64	Bursting strength
65	Coating adhesion
66	Corrected Mass per bag
67	Count of yarn/ Linear Density
68	Count strength product (CSP)
69	Courses and Wales
70	Crease recovery angle
71	Dimension/ Size
72	Disposability

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73	Dynamic perforation
74	Elongation of fabric
75	Ends/ Picks/ Wales/ Courses
76	Fold of yarn
77	Grab Breaking Strength
78	Heat resistance
79	Index Puncture test
80	Knot strength
81	Lea Strength
82	Loop strength
83	Mass/ Weight
84	Oil Repellency Test
85	Pile density
86	Pile height
87	Pilling resistance
88	Pliability
89	Ply of Yarn
90	Point density
91	Pressure Head Test
92	Relaxation Shrinkage
93	Resistance to damage by flexing
94	Shear Strength
95	Static puncture test (CBR test)
96	Stitch Density

97	Storage Stickiness
98	Tear Strength
99	Tenacity
100	Total carpet weight
101	Total pile weight
102	Trapezoidal Tear
103	Tuft withdrawal force
104	Twist
105	Type of Weave
106	Water Absorbency
107	Water penetration/ Cone Test
108	Water Repellency (Spray Test)
109	Weatherability/ UV Resistance
110	Wool Fineness

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