

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD

POLYMER & TECHNICAL TEXTILES LABORATORY

COATED/LAMINATED/FOAMED FABRICS, PLASTICS, RUBBER, LEATHER, FOOTWEAR, ZIPPER, BUTTONS, TAPES, ADHESIVES, POLISHES, POLYMERS AND TECHNICAL TEXTILES (COMPOSITES, AUTOMOTIVE MATERIALS, MEDICAL TEXTILES, GEO TEXTILES, ETC.) TESTING

S. No.	Nature of Test (Test Parameter)	Commonly used Test Method / Instrument
1.	Adhesion Strength (Peel Strength, Coating Adhesion Strength)	IS 7016 / Tensile Strength Tester
2.	Adhesion Test for Shoes	Shoe Adhesion Tester
3.	Aging ambient to –10°C for 8 Hr.	-
4.	Aging –10°C to –40°C for 8 Hr.	-
5.	Aging –40°C to –80°C for 8 Hr.	-
6.	Ash Content	IS 582 / Muffle Furnace
7.	Bending Resistance	SES N 3298
8.	Bonding Agent	DMSRDE Standard
9.	Blocking	SES N 3298
10.	Bursting Strength	Bursting Strength Tester
11.	Compression Elasticity Ratio	-
12.	Compression Set	Compression Set Apparatus
13.	Cut Growth	Ross Flex Tester
14.	Coating on Lab Coater	Mathis Lab Coater
15.	Constant load and Permanent Set	SES N 3298
16.	Dart Impact Strength	Dart Impact Tester
17.	Density	IS : 7888
18.	Differential Scanning Calorimetric Analysis	Differential Scanning Calorimeter
19.	Dimensions - length and width - Thickness - Garment Dimension up to 10 - More than 10	-
20.	DIN Abrasion Test	DIN Abrasion Test
21.	Drop Ball test	Drop Ball test
22.	Endurance Test for Hook/Look Fastener	Endurance Tester
23.	Flash Point	Flash Point Apparatus
24.	FTIR	FTIR method
25.	Flexing Endurance	Flex Meter for Leather
26.	Flexural Strength	Tensile Strength Tester
27.	Fuel Contamination Test	-
28.	Gelling Test	-
29.	Glass Transition Temperature	Differential Scanning Calorimeter
30.	Heat Ageing	-
31.	Heat Aging and Exudation	-
32.	Heat Distortion Temperature	HDT Tester
33.	Humidity Aging	-
34.	Ignitability Test (includes Cigarette,	BS 5852

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S. No.	Nature of Test (Test Parameter)	Commonly used Test Method / Instrument
	Butane Gas, Wooden Crib Tests)	
35.	Identification of Plastics	-
36.	Identification of Rubber	-
37.	Intrinsic Viscosity	-
38.	Izod Impact Strength	Izod Impact Tester
39.	Mass	Electronic Balance
40.	Melt Flow Index	Melt Flow Index Tester
41.	Melting Point	Differential Scanning Calorimeter (DSC)
42.	Proofing content	IS 7016
43.	pH of leather	IS 582 / pH Meter
44.	Residual Strain Ratio	SES N 3298
45.	Resilience	ISO method
46.	Resistance to cold	IS 7016
47.	Resistance to Damage by Flexing	IS 7016 / Demattia Flex Tester
48.	Resistance to Crumple Flexing	ISO 7854 / Crumple Flex Tester
49.	Resistance to Heat and Loss of Coating Mass	-
50.	Rockwell Hardness	Hardness Tester
51.	Rubber Polymer Content with Carbon Black	By TGA
52.	Rubber Polymer Content without Carbon Black	-
53.	Seam Fatigue	SES N 3298
54.	Seam Strength	SES N 3298 / Tensile Strength Tester
55.	Shore Hardness	Shore A / Hardness Tester
56.	Shore Hardness	Shore D / Hardness Tester
57.	Solvent Extractable Substances	IS 582
58.	Specific Gravity	Sp. Gravity Bottle
59.	Stitch Tear Strength	IS 5914 / Tensile Strength Tester
60.	Strength of Bracket	Tensile Strength Tester
61.	Strength of Shaft	Tensile Strength Tester
62.	Strength of Strap	Tensile Strength Tester
63.	Stretch Test of Elastic Tape	IS 9868
64.	Tackiness	SES N 3298
65.	Tear Strength	IS 7016 /

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S. No.	Nature of Test (Test Parameter)	Commonly used Test Method / Instrument
		Tensile Strength Tester
66.	Tear Strength for Plastic	Tensile Strength Tester
67.	Tensile Strength and Elongation	Tensile Strength Tester
68.	Tensile Strength and Elongation for Plastic	Tensile Strength Tester
69.	Tensile Strength at Specified Elongation	Tensile Strength Tester
70.	Tension Set	Tension Set Apparatus
71.	Thermal Gravimetric Analysis	(TGA)
72.	Thermal Insulation	Thermal Conductivity Apparatus
73.	Tongue Tear Strength	IS 7016 / Tensile Strength Tester
74.	UPF (UV Protection Factor)	AATCC 183 AS/NZ, BSEN / UV Transmission Analyser
75.	Vicat Softening Temperature	Vicat Softening Point Apparatus
76.	Volatile Loss	SES N3298
77.	Water Vapour Permeability of Leather	IS 5914 / Water Vapour Permeability Apparatus
78.	Water Absorption	ASTM 570
SLIDE FASTENER		
79.	Remeshability of Fastener	Remeshability Tester
80.	Fold Over Security of Textile chain for a) Obverse Fold b) Reverse Fold	Tensile Strength Tester
81.	Resistance to Abrasion under Load Cycles	Abrasion Tester
82.	Security of Attachment of Bottom Stop	Tensile Strength Tester
83.	Security of Attachment of Puller to Slider	Tensile Strength Tester
84.	Security of Attachment of Top Stop	Tensile Strength Tester
85.	Security of Inter-Locking of Textile Chain to Lateral Load/ Chain Crosswise Strength	Tensile Strength Tester
86.	Security of Slider Lock Holding	Tensile Strength Tester
87.	Security of Attachment of Retainer to Longitudinal Load (Open End)	Tensile Strength Tester
88.	Security of Attachment of Retainer to Lateral Load (Open-End)	Tensile Strength Tester
89.	Zipper Test under Heat	Zipper under Heat Tester

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90.	Reciprocating Movement under Load	Reciprocating Movement under Load Tester
FLAMMABILITY TEST		
91.	Deterioration of visibility due to smoke	Appendix – 15 of UIC-564-OR
92.	Toxicity Index (for 14 gases)	NCD – 1409
93.	Resistance to Spread to Flame	Appendix – 5 of UIC-564- OR
94.	Flammability Test	UL -94 Flammability Test Apparatus
STAB AND IMPACT TESTER		
95.	Stab test	VPAM KDIW : 2004 / Resistance to stab and Impact tester
96.	Impact tester	VPAM KDIW : 2004 / Resistance to stab and Impact tester

Note:

Tests are being carried out as per IS, ASTM, DIN, ISO, JASO, BS, AATCC, EN, HONDA, HES, SES, NES, GM, KIA Standards, Defence, DGS&D, UIC and any other method as per the party's request.

Polymer & Technical Textiles lab may also create facilities of tests other than above as per the requirement of parties.

Before sending the sample, please ensure that sample selected represents the lot.

For further necessary details please contact NITRA labs.