

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	Charges (INR)
1.	Adhesion Strength (Peel Strength, Coating Adhesion Strength)	IS 7016 / Tensile Strength Tester	1000.00
2.	Adhesion Test for Shoes	Shoe Adhesion Tester	1000.00
3.	Aging ambient to -10°C for 8 Hr.	-	500.00
4.	Aging -10°C to -40°C for 8 Hr.	-	500.00
5.	Aging -40°C to -80°C for 8 Hr.	-	1000.00
6.	Ash Content	IS 582 / Muffle Furnace	1000.00
7.	Bending Resistance	SES N 3298	1000.00
8.	Bonding Agent	DMSRDE Standard	1000.00
9.	Blocking	SES N 3298	1000.00
10.	Bursting Strength	Bursting Strength Tester	800.00
11.	Compression Elasticity Ratio	-	1000.00
12.	Compression Set	Compression Set Apparatus	1000.00
13.	Cut Growth	Ross Flex Tester	2000.00/ 100000 cycles
14.	Coating on Lab Coater	Mathis Lab Coater	3000.00
15.	Constant load and Permanent Set	SES N 3298	1500.00
16.	Dart Impact Strength	Dart Impact Tester	2000.00
17.	Density	IS : 7888	500.00
18.	Differential Scanning Calorimetric Analysis	Differential Scanning Calorimeter	4000.00
19.	Dimensions - length and width - Thickness - Garment Dimension up to 10 - More than 10	-	300.00 each 400.00 1000.00 100.00/each
20.	DIN Abrasion Test	DIN Abrasion Test	1500.00
21.	Drop Ball test	Drop Ball test	1000.00
22.	Endurance Test for Hook/Look Fastener	Endurance Tester	5800.00
23.	Flash Point	Flash Point Apparatus	1000.00
24.	FTIR	FTIR method	2000.00
25.	Flexing Endurance	Flex Meter for Leather	2000.00/ 100000 cycles
26.	Flexural Strength	Tensile Strength Tester	1200.00
27.	Fuel Contamination Test	-	3000.00
28.	Gelling Test	-	500.00
29.	Glass Transition Temperature	Differential Scanning Calorimeter	4000.00
30.	Heat Ageing	-	200.00/ 8 Hr.
31.	Heat Aging and Exudation	-	3000.00
32.	Heat Distortion Temperature	HDT Tester	1000.00
33.	Humidity Aging	-	250.00/ 8 Hr.
34.	Ignitability Test (includes Cigarette, Butane Gas, Wooden Crib Tests)	BS 5852	15000.00

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S. No.	Nature of Test (Test Parameter)	Commonly used Test Method / Instrument	Charges (INR)
35.	Identification of Plastics	-	4000.00
36.	Identification of Rubber	-	5000.00
37.	Intrinsic Viscosity	-	2500.00
38.	Izod Impact Strength	Izod Impact Tester	1500.00
39.	Mass	Electronic Balance	300.00
40.	Melt Flow Index	Melt Flow Index Tester	1500.00
41.	Melting Point	Differential Scanning Calorimeter (DSC)	4000.00
42.	Proofing content	IS 7016	2000.00
43.	pH of leather	IS 582 / pH Meter	300.00
44.	Residual Strain Ratio	SES N 3298	1600.00
45.	Resilience	ISO method	1000.00
46.	Resistance to cold	IS 7016	1000.00
47.	Resistance to Damage by Flexing	IS 7016 / Demattia Flex Tester	2000.00/ 10000 cycles
48.	Resistance to Crumple Flexing	ISO 7854 / Crumple Flex Tester	2000.00/2000 cycles 15000.00/ 50,000 cycles
49.	Resistance to Heat and Loss of Coating Mass	-	2000.00
50.	Rockwell Hardness	Hardness Tester	1000.00
51.	Rubber Polymer Content with Carbon Black	By TGA	5000.00
52.	Rubber Polymer Content without Carbon Black	-	4000.00
53.	Seam Fatigue	SES N 3298	3000.00
54.	Seam Strength	SES N 3298 / Tensile Strength Tester	1500.00
55.	Shore Hardness	Shore A / Hardness Tester	800.00
56.	Shore Hardness	Shore D / Hardness Tester	800.00
57.	Solvent Extractable Substances	IS 582	2000.00
58.	Specific Gravity	Sp. Gravity Bottle	800.00
59.	Stitch Tear Strength	IS 5914 / Tensile Strength Tester	1000.00
60.	Strength of Bracket	Tensile Strength Tester	1000.00
61.	Strength of Shaft	Tensile Strength Tester	1000.00
62.	Strength of Strap	Tensile Strength Tester	1000.00
63.	Stretch Test of Elastic Tape	IS 9868	8400.00
64.	Tackiness	SES N 3298	1000.00
65.	Tear Strength	IS 7016 / Tensile Strength Tester	800.00
66.	Tear Strength for Plastic	Tensile Strength Tester	1000.00
67.	Tensile Strength and Elongation	Tensile Strength Tester	800.00
68.	Tensile Strength and Elongation for Plastic	Tensile Strength Tester	1000.00

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S. No.	Nature of Test (Test Parameter)	Commonly used Test Method / Instrument	Charges (INR)
69.	Tensile Strength at Specified Elongation	Tensile Strength Tester	1000.00
70.	Tension Set	Tension Set Apparatus	1000.00
71.	Thermal Gravimetric Analysis	(TGA)	4000.00
72.	Thermal Insulation	Thermal Conductivity Apparatus	5000.00
73.	Tongue Tear Strength	IS 7016 / Tensile Strength Tester	1000.00
74.	UPF (UV Protection Factor)	AATCC 183 AS/NZ, BSEN / UV Transmission Analyser	1500.00
75.	Vicat Softening Temperature	Vicat Softening Point Apparatus	1000.00
76.	Volatile Loss	SES N3298	1200.00
77.	Water Vapour Permeability of Leather	IS 5914 / Water Vapour Permeability Apparatus	1500.00
78.	Water Absorption	ASTM 570	1000.00
SLIDE FASTENER			
79.	Remeshability of Fastener	Remeshability Tester	800.00
80.	Fold Over Security of Textile chain for a) Obverse Fold b) Reverse Fold	Tensile Strength Tester	800.00 800.00
81.	Resistance to Abrasion under Load Cycles	Abrasion Tester	1000.00
82.	Security of Attachment of Bottom Stop	Tensile Strength Tester	800.00
83.	Security of Attachment of Puller to Slider	Tensile Strength Tester	800.00
84.	Security of Attachment of Top Stop	Tensile Strength Tester	800.00
85.	Security of Inter-Locking of Textile Chain to Lateral Load/ Chain Crosswise Strength	Tensile Strength Tester	1600.00
86.	Security of Slider Lock Holding	Tensile Strength Tester	800.00
87.	Security of Attachment of Retainer to Longitudinal Load (Open End)	Tensile Strength Tester	800.00
88.	Security of Attachment of Retainer to Lateral Load (Open-End)	Tensile Strength Tester	800.00
89.	Zipper Test under Heat	Zipper under Heat Tester	1000.00
90.	Reciprocating Movement under Load	Reciprocating Movement under Load Tester	1000.00
FLAMMABILITY TEST			
91.	Deterioration of visibility due to smoke	Appendix – 15 of UIC-564-OR	12000.00
92.	Toxicity Index (for 14 gases)	NCD – 1409	40000.00

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S. No.	Nature of Test (Test Parameter)	Commonly used Test Method / Instrument	Charges (INR)
93.	Resistance to Spread to Flame	Appendix – 5 of UIC-564- OR	5000.00
94.	Flammability Test	UL -94 Flammability Test Apparatus	2000.00
STAB AND IMPACT TESTER			
95.	Stab test	VPAM KDIW : 2004 / Resistance to stab and Impact tester	4000.00/strike /angle
96.	Impact tester	VPAM KDIW : 2004 / Resistance to stab and Impact tester	4000.00/strike /angle

Note:

Colour fastness can also be tested for the samples.

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 can also create facilities of tests other than above as per the requirement of parties.

*Applicable GST Extra