

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD
PROTECTIVE AND AUTOMOTIVE TEXTILES TESTING

| S. No. | Nature of Test (Test Parameter) | Commonly used Test Method | Charges* (INR) |
|--|--|---|----------------|
| A. Flame, Heat, Electric & Thermal Resistance | | | |
| 1. | Pre-treatment after 05 washes before FR test | IS 15370-2A/ISO 6330-2A | 1000.00 |
| 2. | Heat resistance | ISO 17493 (180°C) | 1200.00 |
| 3. | Flame spread – Face ignition | IS 15758 (Part 4)/ISO 15025: 2000 (A) /BS 5867/BS 5438-1A | 1500.00 |
| | | BS 5438-2A | 1500.00 |
| | | BS 5438-3A | 2000.00 |
| 4. | Flame spread – Edge ignition | IS 15758 (Part 4)/ISO 15025: 2000 (B)/BS 5867/BS 5438-1B | 1500.00 |
| | | BS 5438-2B | 1500.00 |
| | | BS 5438-3B | 2000.00 |
| 5. | Impact of spatter (up to class-2) | ISO 9150 | 6000.00 |
| 6. | Electrical resistance | EN 1149-2 | 3000.00 |
| 7. | Convective heat | IS 15758/(Part 1)/ISO 9151 | 6000.00 |
| 8. | Radiant heat | IS 15758 (Part 2)/ISO 6942 | 7000.00 |
| 9. | Molten Aluminium Splash - up to D1 -up to D2 -up to D3 | ISO 9185 | 6500.00 |
| | | | 8000.00 |
| | | | 10000.00 |
| 10. | Molten Iron Splash -up to E1 -up to E2 -up to E3 | ISO 9185 | 7000.00 |
| | | | 8500.00 |
| | | | 11000.00 |
| 11. | Contact Heat – Heating cylinder | ISO 12127 | 3000.00 |
| 12. | Sweating guard hot plate test -Thermal Resistance (Rct) -Water vapour resistance (Ret) | ISO 11092 (Ret can also be tested as per ASTM F 1868 Part B) | - |
| | | | 5000.00 |
| | | | 6000.00 |
| 13. | Limiting Oxygen Index -Fabric -Nonwoven, | IS 13501/ASTM D 2863/ NCD 14510 | 1500.00 |
| | | | 2000.00 |

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| | plastic, wood etc | | |
| 14. | Vertical Flammability test - IS 15061 - IS 11871/ BS 5438 | IS 15061 Annex B/11871 Method A | 1200.00 1000.00 |
| 15. | Inclined Flammability Test | IS : 11871 Method-B/ASTM D1230/ AATCC-33 | 1000.00 |
| 16. | Horizontal Flammability Test | IS 15061 Annex A/FMVSS 701 | 1000.00 |
| 17. | Methenamine Tablet test | BS 6307/ASTM D 2859/NFPA 101 | 1500.00 |
| 18. | Cigarette test (Source zero) | BS 5852 | 1000.00 |
| 19. | Small Flame test (Source-1) | BS 5852 | 1500.00 |
| 20. | Fire test -NFPA 701 Method 1 -NFPA 701 Method 2 | NFPA 701 | 1500.00 3000.00 |
| 21. | Thermal Protective Performance Test (TPP /HTP) | NFPA-2112, ISO 17492, NFPA 1971, NFPA 1981, ASTM F 2700, ASTM 2703 (For contact & Space both) | 20,000.00 |
| 22. | Surface Flammability Test | ISO 5658-2/ IMO A 653 | 25000.00 |
| 23. | Heat resistance | Hot Air Oven | 200.00 (for 8 hrs) |
| 24. | Humidity Resistance | Humidity chamber | 250.00 (for 8 hrs) |
| B. High Visibility Clothing | | | |
| 25. | Colour performance – Chromaticity coordinates and luminance factor (Normal state) | IS 15809/BS EN 20471 | 2000.00 |
| 26. | Colour performance – Chromaticity coordinates and luminance factor (After Xenon test) | IS 15809/BS EN 20471 | 3000.00 |
| 27. | Photometric for retro-reflective | IS 15809/BS EN 20471 | |

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| | material (Normal state) -Chromo city -Retero reflection | | 2000.00 2000.00 |
| 28. | Photometric for retro-reflective material (After exposure to Abrasion, Flexing, Temperature variation, Washing, Cold fold, Dry cleaning, Rainfall) | IS 15809/BS EN 20471 | 3000.00 (for each exposure) |
| C. Automotive Textiles | | | |
| 29. | Color Fastness to Light (Xenon Arc) - One sample - For two samples - More than three samples | GME 60292/SAE J 1885/TSL 3600 G/ TSL 0601 G/MS –300-35/AATCC 16 H/JASO M 403-83/HES D 6601/JASO M 346/EDS-T-7415/GM 9538P | 125 per hour 100 per hour 70per hour |
| 30. | Colour definition (XYZ & L a b Values) | Using CCM | 300.00 |
| 31. | Abrasion Resistance (Taber Type) Abrader Wheel (CS-10, H-18, H-22 & H-38) Upto 1000 Cycles Upto 1500 Cycles Upto 2000 Cycles | SAE J1530 – A, SES N 3246, JASO 403, SAE J948, MS 300-32 SES N 3298 | 1000.00 2000.00 2500.00 |
| 32. | Flammability | SAE J 369, FMV SS 302, SES N 3245 HES D-6003, JASO M 313, GM 9070P MS 300-8 | 1000.00 |
| 33. | Smell (Dry & Wet Condition) | TSL 3505G, TSM 0505 G | 1200.00 |
| 34. | Smell (40C- 95% RH X 400 HRS) | TSL 3505G | 12500.00 |

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| 35. | Odor property | HES D6507/MS 300-32/FMLT 131-01 | 1200.00 |
| 36. | Fog Test -Fog Number -Fog Percentage -Attached mass | TSL 3608G/MS 300-54/TSM 0503G/ EDS T 7694, FLTM BO 116-03/SAE J 1756 | 1200.00 1200.00 1500.00 |
| 37. | Colour Fastness to Crocking /Rubbing | FLTM BN 107-01/JASO M 313 EDS-T-7643 | 600.00 |
| 38. | Dimensional change by Moisturing/ Immersion shrinkage | HES D 6506/JASO M 313-83 MS 300-32/FLTM BN 105-01 | 600.00 |
| 39. | Dimensional Stability against Humidity | MS 300-32 | 600.00 |
| 40. | Dimensional Change by Heating | HES D 6506/FLTM-BN-105-01 | 600.00 |
| 41. | Water Resistance/Repellency | HES D 6506/Ms 300-32 | 300.0 |
| 42. | Resistance to Bleeding | AN 101 –01 | 300.00 |
| 43. | Resistance to Bleeding | AN 101 –01 | 300.00 |
| 44. | Resistance to Heat | (100 ⁰ c for 8 Hrs.) | 200.00 |
| 45. | Resistance to Humidity | (40 ⁰ C- 95% RH for 8 hrs.) | 250.00 |
| 46. | Steaming in Auto-Clave | (100 ⁰ C for 1 hr.) | 1000.00 |
| 47. | Colour fastness to Crocking | TSL 3600 G/BN 107-01/FLTM BN 107-01/MS 300-32 | 600.00 |
| 48. | Soil Resistance (Oil, Water and drop) | Automotive standard | 2400.00 |

Note:

**Applicable GST Extra*

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.

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.