

## ATIRA Technical Textile Lab

### FUNCTIONAL TEXTILE TESTS

<i>Sr. No.</i>	<i>Test Parameters</i>	<i>Testing Standards</i>	<i>Instrument</i>	<i>Regular Charges (Rs.) per Sample</i>
1	Fabric Air permeability	ISO 9237-1995 ASTM D 0737 -04 (Reapproved 2008) IS 11056-1984 (Reaffirmed 1999) EDANA 140.2-99 ISO 9073-15 :2007	TESTTEX	600
2	Water Resistance : Hydrostatic Pressure Test	ISO 811-1981 AATCC 127 -2003 EDANA 120.2-02 ISO 9073-16 :2007	TESTTEX	600
3	Water Repellency (Spray Test)	ISO 4920 -1981 AATCC 22-2005 IS 390 -1975 (Reaffirmed 1997)	Manual	250
4	Water Absorbency	AATCC 79-2000 IS 2349-1963	Manual	500
5	Oil Repellency Test	AATCC 118	Manual	1000
6	Cone test	IS 7941-1976	Manual	300
7	Thermal Resistance	ISO 11092-1993, ASTM D 1868, NFPA 1971	Lunaire & hot plate ( Measuremet Technology US )	2000
8	Water Vapour Permeability	ISO 11092-1993, ASTM D 1868, NFPA 1971	Lunaire & hot plate ( Measuremet Technology US )	3000

## HIGH VISIBILITY CLOTHING

Sr. No.	Test Parameters	Testing Method	Instrument	*Test Charges (Rs.) per Sample
<b>BACKGROUND MATERIAL</b>				
1	Color Performance	EN 471-2008-03 EN 1150-1999 IS 15809: 2008	Konica Minolta	500
f2.	Color Performance after Xenon Test	EN 471 & ISO 105-B02 EN 1150 & ISO 105-B02 IS 15809: 2008 & IS 2454 a) For Orange and Red Material b) For Yellow Material	Weatherometer	2000 1500
3	Color Fastness to rubbing	ISO 105-X12 IS 766	James H.Hill	200
4	Color Fastness to Perspiration	ISO 105-E04 IS 971	Oven	400
5	Color Fastness to laundry	ISO 105-C06 IS 13025	James H.Hill	350
6	Color Fastness to Dry-cleaning	ISO 105-D01 IS 4802	James H.Hill	400
7	Color Fastness to Hypochlorite Bleaching	ISO 105-N01 IS 762	Manual	250
8	Color Fastness to Hot Pressing	ISO 105-X11 IS 689	James H.Hill	400
9	Dimensional Change (after Five Wash)	ISO 5077/ISO 6330 IS 15370:2005 After five Wash Each Additional Wash	Wascator	1000 200
10	Tensile Strength	EN ISO 13934-1	INSTRON - UTM	600
11	Tear Strength	ISO 4674-1977	INSTRON - UTM	600

RETROREFLECTIVE MATERIAL				
12	Coefficient of Retro-reflection [Reflective Part]	EN 471 EN 1150 IS 15809: 2008	ZEHNTNER	500
13	Coefficient of Retro-reflection after Martindale Abrasion Resistance	EN 471 & ISO 12947 EN 1150 & ISO 12947 IS 15809: 2008 & IS 12673	ZEHNTNER	Up to 10000 rubs Rs. 1000 Each additional 5000 rubs or part thereof Rs. 500 extra
14	Coefficient of Retro-reflection after Washing	EN 471 & ISO 5077/ISO 6330 EN 1150 & ISO 5077/ISO 6330 IS 15809: 2008 & IS 15370:2005 After One Wash For Each Additional Wash	ZEHNTNER	800 300 extra (upto 60oC) 500 extra (above 60oC)
15	Coefficient of Retro-reflection after exposure to temperature variation	EN 471	ZEHNTNER	2500

### Electrostatic Resistance Testing

Sr. No.	Test Parameters	Testing Method	Instrument	*Test Charges (Rs.) per Sample
1	Surface Resisstivity	EN 1149-1	Surface resistance tester	1000
2	Vertical Resistance	EN 1149-2	Surface resistance tester	1000