

IYU SAILCLOTH TEST REPORT

TECHNICAL DATA SHEET

SOLARTEX: 100% solution dyed polyester, PU coating, water repellent

TEST	METHOD	RESULT	UNIT
Colorfastness to light	AATCC 16.3, OPTION 3 WATER COOLED XENON-ARC LAMP (1000 AFU/1200 AFU/1500 AFU)	4.5/5	GRADE
	AATCC 16, OPTION 3 COLOR CHANGE @300 HRS	4.5/5	GRADE
	ISO 105-B02:2014, METHOD 3 XENON-ARC LAMP, MODIFICATION: EXPOSURE UP TO CONTRAST OF GREY SCALE 4	8/8	GRADE
Colorfastness to UV light	ASTM G154-16 [UVA 340, cycle 1][AATCC 16.3] (Grade 3.0 minimum at 1000 hours)	CC: Grade 4.0/5	GRADE
Colorfastness to crocking	AATCC 8-13 Dry: Grade 4.0 minimum Wet: Grade 3.0 minimum	Dry: CS: Grade 4.5/5 Wet: CS: Grade 4.5/5	GRADE
Colorfastness to water	AATCC 107-13 Grade 3.0 minimum	CC: Grade 4.5/5 CS: Grade 4.5/5	GRADE
Solar UV Protective Properties	BS EN 13758-1:2002+A1:2006 Sample complies with the UPF 40+ UV-Vis Spectrophotometer model	>50 (No. of Scans : 8)	UPF
Tearing Strength	ISO 13937-2:2000 Single Tear Method(300g)	Warp 164 Weft 94	N*
	ASTM D2261-2011 Single Rip Tongue Tear, Tensile Testing Machine, CRE(260g)	Warp 26.7 Weft 22.3	LBF
Tensile Strength	ISO 13934-2:2014 1-Inch Grab Test, Tensile Testing Machine, CRE(300g)	Warp 2,748 Weft 1,510	N*
	ASTM D5034-2009 1-Inch Grab Test, Tensile Testing Machine, CRE(260g)	Warp 451.0 Weft 345.2	LBF
Breaking strength of textile fabrics: grab test	ASTM D5034-09 R2013 [Fabric - length and width] Minimum 50 lb	Length: 218.7 / Width: 183.7 (259g/m ²)	LBS
		Length: 213.0/Width: 201.2 (245g/m ²)	

TEST	METHOD	RESULT	UNIT
Oil repellency	AATCC 118-13 Min. No. 3 oil	6/8 (259g/m ²)	GRADE
		3/8 (245g/m ²)	GRADE
Aqueous liquid repellency	AATCC 193-12 Minimum 70/30 water. 60:40/Water: Isopropyl alcohol (vol:vol)	8/8 (259g/m ²)	GRADE
		6 /8(245g/m ²)	GRADE
Water repellency: spray test	AATCC 22-14 [If claimed water resistant] Minimum 90 rating.	95/100	GRADE
Abrasion Resistance	BS EN ISO 12947-2:1999 Martindale tester(12kpa)	> 10,000 (300g)	RUBS
	ASTM D4157-2007 Oscillatory Cylinder Tester, Stainless Steel Wire Screen Abradent, 3 lbs Compression Force, 4 lbs Tension	Warp/Weft > 30,000 (260g)	Cycles
Water Penetration Resistance	ISO 811:1981 Hydrostatic pressure test; Test area : 100 cm ² The rate of increase of water pressure : 60±3 cm H ₂ O/min.	442	mmH ₂ O
Formaldehyde spot test on textile	Qualitative analysis/ CPSD-AN-00018-MTHD	PASS	N/A
Soil Release	AATCC 130-2015 Stains used/Corn oil - Mazola/After 1 wash* * Washing condition : As the washing procedure II at 27± 3°C	3.5/5	GRADE
Air Permeability	ISO 9237-1995 Textest FX3300 Air Permeability Tester III Test pressure : 100 Pa; Test area : 20 sq.cm.	0.297(Average) 0.279(Min) 0.322(Max) 4.9(CV%)	cm ²
Seam Slippage	ASTM D4034-1992 Tensile Testing Machine, CRE S.O. ¼" = Seam opened at ¼ inch STB = Sewing thread broken	To Warp: 98.0 To Weft: Less than ¼" slippage (STB at 120.0 lbf)	LBF
Hydrostatic Pressure	AATCC 127-2014, Method A Hydrostatic Head Tester, Pressure Gradient At 60 Mbar/Min Water Pressure Requirement: 800mm	>800	mm

*N=Newton

The technical data are to be considered as indicative values.

- 100% Solution-dyed polyester fabric
- PU-coating
- Breathable
- PVC-free
- Highest degree of lightfastness
- Dirt and water-repellent
- Anti-mold system
- No stress whitening
- Extremely long-lasting
- Extremely strong
- Resistant to sea water, chlorine, and oil