



Mesa Solar Screen Fabric

Product Specifications

Benefits:

Mesa solar screen fabric is woven in a 2 x 2 basketweave pattern, and is available in wide widths. Each color is available in 4 densities, making Mesa a versatile choice for diverse projects.

Specifications:

Category	Solar Screen Fabric	Composition	1%: 37% Fiberglass, 63% Vinyl; 3-10%: 35% Fiberglass, 65% Vinyl
Openness Factor	1%, 3%, 5%, & 10%	Width	1- 5%: 126"; 10%: 98"
UV Blockage	Approximately 90-99%	Thickness	1%: 0.024" (0.61 mm) ±5% 3%: 0.019" (0.48 mm) ±5% 5%: 0.017" (0.43 mm) ±5% 10%: 0.017" (0.43 mm) ±5%
Weave style	2 x 2 Basketweave	Weight	1%: 16.25 oz/yd2 (551 g/m2) ±5% 3%: 14.1 oz/yd2 (471 g/m2) ±5% 5%: 11.8 oz/yd2 (403 g/m2) ±5% 10%: 10.5 oz/yd2 (356 g/m2) ±5%

Fire Classifications:	NFPA 701-10 TM#1, TM#2 California U.S. Title 19 IBC Section 803.1.1 Class A BS 5867 2008 Part 2 Type B ASTM E 84 Class 1 CAN/CSGB2-4.162-M80 CAN/ULC-S109-03 Small Flame Test
Anti-Microbial Properties:	ASTM-E2180, ASTM-G21 AATCC30 Part 3, ASTM D 3272, ASTM 6329
Certifications:	GreenGuard Gold Melanoma International Foundation Seal of Approval
Acoustic Performance:	Noise Reduction Coefficient: 0.55, Sound Absorption Average: 0.54
Environmental Benefits:	RoHS: Lead Free USCPC Section 101 ANSI/WCMA A 1001.1-2007 REACH Compliant
Care & Cleaning:	Clean with mild soap and water.

For complete technical information, current test results, performance specifications and larger samples, contact the Insolroll, Inc.

Fenestration Properties: Fabrics installed internally, (Solar Optical Properties) Zero-degree profile		Definition of terms:	
Color		Ts= Solar Transmittance	Energy that is allowed to pass through
1% open colors	Ts RS AS TV SHGC*	Rs= Solar Reflectance	Energy that is reflected away
Oyster	15 68 17 13 0.22	As= Solar Absorptance	Energy that is absorbed by the fabric
Beige	7 50 43 6 0.25	Tv= Visible Light Transmission	Percentage of visible light that comes into the room
Beige/Pearl Grey	5 42 53 5 0.28	OF= Openness Factor	Percentage of fabric that is open (between the threads)
Pearl Grey	3 32 65 3 0.3	SHGC= Solar Heat Gain Coefficient	The percentage of incident solar radiation that is transmitted as heat to the interior through the glass and shading system*.
Charcoal/Alpaca	1 16 83 2 0.34	CL= Clear Glass	
Charcoal/Chestnut	1 6 93 1 0.37		
Charcoal	1 4 95 1 0.37		
3% open colors			
Oyster	17 64 19 12 0.23		
Beige	10 48 42 7 0.26		
Beige/Pearl Grey	7 39 54 5 0.29		
Pearl Grey	6 31 63 5 0.3		
Charcoal/Alpaca	4 20 76 5 0.33		
Charcoal/Chestnut	3 6 91 3 0.37		
Charcoal	3 3 94 3 0.37		

*Glass tested: 1/4" Heat Absorbing. SHGC was calculated by multiplying SC (Shading Coefficient provided by mill) by 0.87.

The solar optical properties are used to calculate the shading coefficient. The shading coefficient represents the percentage of solar heat gain that is transmitted to the interior through the glass and shading system. Darker Colors provide maximum glare reduction and visibility.

5% open colors

Oyster	21	61	18	14	0.23
Beige	14	47	39	10	0.27
Beige/Pearl Grey	11	38	51	9	0.29
Pearl Grey	10	31	59	9	0.3
Charcoal/Alpaca	7	18	75	9	0.34
Charcoal/Chestnut	6	6	88	6	0.37
Charcoal	4	4	92	5	0.37

10% open colors

Oyster	27	57	16	21	0.25
Beige	19	44	37	16	0.28
Beige/Pearl Grey	17	39	44	15	0.3
Pearl Grey	16	30	54	14	0.31
Charcoal/Alpaca	12	15	73	16	0.35
Charcoal/Chestnut	11	5	84	12	0.37
Charcoal	10	4	86	11	0.37