

## Technical Specifications, Sahara Solar Screen Fabric



### Solar Screen Fabric Collection

<b>637 S. Pierce Ave.</b> <b>Louisville, CO</b> <b>80027</b>  tel 800.447.5534 fax 303.665.1209 <a href="http://www.insolroll.com">www.insolroll.com</a>	<b>Name:</b>	Sahara Solar Screen Fabric
	<b>Composition:</b>	Vinyl-coated Polyester
	<b>Breaking Strength:</b>	3%-Warp 340/Fill 250 (lbs); 5%-Warp 315/Fill 260 (lbs); 10%-Warp 315/Fill 230 (lbs.)
	<b>Standard Pkg'g:</b>	Rolls of 30 ly (27 lm)
	<b>Thickness:</b>	3%-.037"; 5%-.036"; 10%-.035"
	<b>Weight:</b>	3%-20.7 oz/yd <sup>2</sup> ; 5%-19.2 oz/yd <sup>2</sup> ; 10%-17.5 oz/yd <sup>2</sup>
	<b>Width:</b>	3%-126"; 5%- 126"; 10%-98"

#### Solar Heat Control Properties

#### Fabrics Installed Internally, Zero-Degree Profile Angle

Sahara 3% Average Openness 3%	Solar Optical Properties*				Internal Shading Coefficient w/ Single Insulating			
	TS	RS	AS	TV	1/4CL	1/4HA	1CL	1HA
Chalk	12	70	18	7	0.30	0.30	0.16	0.15
Alabaster	10	62	28	6	0.35	0.32	0.19	0.17
Granite	6	48	46	5	0.43	0.37	0.25	0.20
Pebblestone	9	51	40	6	0.42	0.36	0.38	0.28
Greystone	6	39	55	5	0.48	0.40	0.44	0.32
Tobacco	3	5	92	3	0.69	0.50	0.62	0.42
Pewter	3	26	71	2	0.56	0.44	0.34	0.25
Ebony	3	3	94	3	0.70	0.51	0.63	0.43
Ash	3	10	87	4	0.66	0.49	0.60	0.41

Sahara 5% Average Openness 5%	Solar Optical Properties*				Internal Shading Coefficient w/ Single Insulating			
	TS	RS	AS	TV	1/4CL	1/4HA	1CL	1HA
Chalk	16	68	16	12	0.32	0.31	0.31	0.25
Alabaster	15	57	28	13	0.39	0.35	0.36	0.28
Granite	11	41	48	10	0.48	0.40	0.29	0.23
Pebblestone	14	49	37	12	0.44	0.37	0.41	0.30
Greystone	10	34	56	9	0.52	0.42	0.32	0.24
Tobacco	7	5	88	8	0.70	0.51	0.44	0.31
Pewter	8	27	65	9	0.56	0.44	0.51	0.36
Ebony	6	5	89	8	0.69	0.51	0.63	0.43
Ash	7	11	82	8	0.66	0.49	0.41	0.30

Internal Shading Coefficient w/ Sahara 10%	Solar Optical Properties*				Single Insulating			
	TS	RS	AS	TV	1/4CL	1/4HA	1CL	1HA
Chalk	18	66	16	15	0.34	0.32	0.32	0.25
Alabaster	19	56	25	16	0.41	0.36	0.38	0.29
Granite	15	42	43	14	0.49	0.40	0.29	0.23
Pebblestone	16	48	36	15	0.45	0.38	0.41	0.31

Greystone	14	35	51	14	0.53	0.42	0.48	0.34
Tobacco	10	5	85	11	0.70	0.51	0.45	0.32
Pewter	12	26	62	14	0.58	0.45	0.53	0.37
Ebony	10	4	86	11	0.71	0.52	0.64	0.43
Ash	10	10	80	11	0.67	0.50	0.42	0.31

\* Performance evaluations conducted by Matrix, Inc., Mesa Arizona

TS = Solar Transmittance      1/4 CL = 1/4" Clear Glass  
RS = Solar Reflectance        1/4 HA = 1/4" Heat Absorbing Glass  
AS = Solar Absorptance        1CL = 1" Clear Glass  
TV = Visual Transmittance      1HA = 1" Heat Absorbing Glass

\*Performance evaluations conducted by Matrix, Inc., Mesa Arizona

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

**Fire Classifications:** NFPA 701-2004 TM#1 (small scale), California U.S. Title 19 (small scale),  
NFPA 101 (Class A Rating), UBC (Class 1)

**Bacterial/Fungal Resistar** ASTM E 2180

**Environmental Benefits:** Lead Free