MERMET
Sun Control Textiles™

Product Specifications Sheet

S Screen™ 1%

Specifications

Product Category: Decorative
Openness Factor: 1%
UV Blockage: Approximately 99%
Fabric Style: Plain Weave
Item #: 001601

Composition: 33.6% fiberglass / 59.6% vinyl 6.8% polyester
Standard Packaging: Rolls of 23 ly (21 lm)
Width: 98" (250 cm), 122" (310 cm)
Weight: 19.10 oz / yd2 (646 g / m2) ± 5%
Thickness: 0.041" (1.04 mm) ± 5%

Fenestration Data

Color#	Color Name	Fabric Properties					Fabric & Glass			
		Thermal			*Optical*		*Commercial*		*Residential*	
		Total Solar			Rv (%)	Tv (%)	SHGC % Improvement		SHGC	
		Rs (%)	As (%)	Ts (%)			Interior	Exterior	Interior	Exterior
0070C1	Granite	34	61	5	36	3	34	84	0.44	0.10
0020D2	Marble	56	36	8	60	6	47	84	0.33	0.10
0020D1	Porcelain	63	27	10	67	8	53	84	0.30	0.10
0200C1	Jute	46	45	9	48	7	39	82	0.39	0.12
0100C2	Cork	37	56	7	37	5	34	84	0.44	0.11
0100N5	Papyrus	39	54	7	39	5	34	84	0.43	0.11
0610P6	Sesame	14	84	2	14	2	21	82	0.53	0.11
0100B6	Ginger	33	62	5	33	4	32	84	0.45	0.11
0100P1	Nougat	39	54	7	37	5	18	82	0.47	0.12
0610B2	Coffee Bean	10	87	3	10	2	18	82	0.55	0.12
0070B1	Peppercorn	31	65	4	33	3	32	84	0.46	0.10
0020P1	Seasalt	62	29	9	63	6	50	87	0.31	0.10

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Total Solar Transmittance (Ts), Total Solar Reflectance (Rs), Total Solar Absorptance (As), Visible Reflectance (Rv), and Visible Transmission (Tv). Glass performance tests for Solar Heat Gain Coefficient (SHGC) were conducted using the Lawrence Berkeley National Laboratory Window NFRC certified software. SHGC % improvement for commercial applications is based on a standard commercial glass makeup of Double Glazing 6 mm / ½" air / 6 mm with low E on surface #2. SHGC for residential applications is based on a default residential glass makeup of 3mm clear glass / 1/2" air / 3mm clear glass. Results for SHGC were obtained using the center of glass. Acoustical performance was tested in accordance with ASTM C423-09a: NRC is Noise Reduction Coefficient, SAA is Sound Absorption Average. For up-to-date test results, performance specifications and larger samples, contact the Mermet Technical Department at: www.mermetusa.com.

Fabrication Methods:
Cutting: cold, ultrasonic or crush
Welding: radio frequency, high frequency, impulse, hot air, wedge

Fire Classifications:
NFPA 701-10 TM#1, California U.S. Title 19
CAN/ULC-S109-03 Small & Large Flame Test

Bacterial and Fungal Resistance:
ASTM E2180, ASTM G21

Environmental Benefits:
RoHS - Lead Free

Acoustical Performance:
NRC: 0.25, SAA: 0.26

We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabrication specifications.

Care & Handling

Remove dust with vacuum cleaner or compressed air. Do not scrub. Do not use solvents or any abrasive substance which might damage the coating of the fabric. Clean with a sponge or a soft brush dipped in soapy water using mild detergent. Rinse with clean water. Leave the blind down until completely dry. You can also very gently rub the fabric with a clean white pencil eraser to remove small stains.

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Specifications

Item Number	**1%** 008501 | **3%** 008503 | **5%** 008505
Product Category	Conventional
Fabric Style	Rib Weave
Openness Factor	1%, 3% & 5%
Composition	36% Fiberglass | 64% Vinyl
UV Blockage	Approximately 95% - 99%
Standard Packaging	Rolls of 30 ly (27 lm)
Width	78 in (200 cm), 98 in (250 cm), 122 in (310 cm)
Weight	**1%** 13.12 oz/yd² (445 g/m²) ±5% | **3%** 12.27 oz/yd² (432 g/m²) ±5% | **5%** 11.3 oz/yd² (384 g/m²) ±5%
Thickness	**1%** .022 in (0.56 mm) ±5% | **3%** .022 in (0.55 mm) ±5% | **5%** .022 in (0.55 mm) ±5%

Classifications

Fire Classifications	NFPA 701-10 TM#1, California U.S. Title 19, CAN/ULC-S109-03 Small & Large Flame Test
Bacterial & Fungal Resistance	ASTM E2180, ASTM G21
Environment	RoHS - Lead Free, GREENGUARD Gold
Acoustical Performance	**1%** NRC: 0.50, SAA: 0.47 | **3%** NRC: 0.35, SAA: 0.33 | **5%** NRC: 0.10, SAA: 0.12

Fabrication

Cutting: Cold, Ultrasonic or Crush | **Welding:** Radio Frequency, High Frequency, Impulse, Hot Air or Wedge

We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabric specifications.

M Screen™

		FABRIC														FABRIC + GLASS											
					thermal Total Solar						optical						commercial SHGC % Improvement						residential SHGC					
		Rs | %			As | %			Ts | %			Rv | %			Tv | %			Interior			Exterior			Interior			Exterior		
ITEM	COLOR	1	3	5	1	3	5	1	3	5	1	3	5	1	3	5	1	3	5	1	3	5	1	3	5	1	3	5
030071	Charcoal/Apricot	11	13	13	86	82	80	3	5	7	11	14	13	2	5	7	18	18	16	82	84	84	0.55	0.59	0.60	0.11	0.11	0.11
002002	**White/White**	**76**	**71**	**71**	**9**	**11**	**10**	**15**	**18**	**19**	**81**	**76**	**75**	**12**	**16**	**16**	**63**	**55**	**55**	**82**	**76**	**76**	**0.24**	**0.29**	**0.30**	**0.13**	**0.16**	**0.16**
002007	White/Pearl	59	54	52	32	36	33	9	10	15	64	58	56	7	8	12	50	45	42	84	84	79	0.32	0.37	0.40	0.10	0.11	0.14
007020	**Pearl/Linen**	**36**	**40**	**39**	**56**	**49**	**49**	**8**	**11**	**12**	**38**	**42**	**41**	**5**	**8**	**9**	**34**	**34**	**32**	**82**	**84**	**82**	**0.44**	**0.46**	**0.47**	**0.12**	**0.12**	**0.13**
007007	Pearl/Pearl	32	34	33	63	59	57	5	7	10	34	36	35	4	5	7	26	29	29	84	87	84	0.45	0.48	0.50	0.11	0.10	0.12
030001	**Charcoal/Grey**	**7**	**8**	**8**	**91**	**90**	**86**	**2**	**2**	**6**	**7**	**8**	**8**	**2**	**2**	**5**	**18**	**16**	**13**	**82**	**87**	**84**	**0.56**	**0.61**	**0.63**	**0.12**	**0.09**	**0.11**
030030	Charcoal/Charcoal	4	4	4	95	93	93	1	3	3	4	4	4	1	3	3	16	13	11	82	84	87	0.57	0.63	0.64	0.11	0.10	0.09
002022	**White/Stone**	**67**	**62**	**61**	**15**	**17**	**18**	**18**	**21**	**21**	**71**	**66**	**65**	**16**	**18**	**18**	**55**	**47**	**47**	**76**	**74**	**74**	**0.30**	**0.35**	**0.36**	**0.16**	**0.18**	**0.18**
002020	White/Linen	67	64	61	18	21	20	15	15	19	72	67	64	12	11	15	55	50	47	79	82	79	0.29	0.33	0.36	0.14	0.13	0.16
020022	**Linen/Stone**	**50**	**51**	**50**	**29**	**28**	**28**	**21**	**21**	**22**	**53**	**53**	**52**	**18**	**16**	**18**	**42**	**39**	**37**	**71**	**76**	**74**	**0.39**	**0.41**	**0.42**	**0.19**	**0.18**	**0.19**
00M166	Linen/Sable-Cocoa	39	35	36	50	56	52	11	9	12	41	37	37	9	7	10	37	29	29	79	84	82	0.43	0.48	0.49	0.14	0.11	0.13
030010	**Charcoal/Sable**	**10**	**12**	**13**	**87**	**84**	**81**	**3**	**4**	**6**	**10**	**13**	**13**	**2**	**4**	**5**	**18**	**18**	**16**	**82**	**84**	**84**	**0.55**	**0.59**	**0.60**	**0.12**	**0.10**	**0.11**
030061	Charcoal/Cocoa	5	5	5	93	92	90	2	3	5	5	5	5	2	3	4	16	13	13	82	84	84	0.57	0.62	0.64	0.12	0.10	0.10

Warranty

5 Year Exterior & 10 Year Interior

Care & Handling

Remove dust with a vacuum cleaner or compressed air. Do not scrub. Do not use solvents or any abrasive substance which might damage the coating of the fabric. Clean with a sponge or soft brush dipped in soapy water using a mild detergent. Rinse with clean water. Leave the blind down until completely dry. You can also very gently rub the fabric with a clean white pencil eraser to remove small stains.

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