MERMET Sun Control Textiles™

Chroma™

Specifications

Product Category:	High Performance	**Composition:**	36% fiberglass / 64% vinyl
			Ultra-fine layer of aluminum
Openness Factor:	2%	**Standard Packaging:**	Rolls of 33 ly (30 lm)
UV Blockage:	Approximately 98%	**Width:**	94.5" (240 cm)
Fabric Style:	Basketweave	**Weight:**	11.92 oz / yd2 (404 g / m2) ± 5%
Item #:	033000	**Thickness:**	.020" (0.50 mm) ± 5%

Fenestration Data

			Fabric Properties					Fabric & Glass		
			Thermal			Optical		Commercial	Residential	**Emissivity**
			Total Solar			Rv (%)	Tv (%)	SHGC % Improvement	SHGC	
Color#	Color Name	Side*	Rs (%)	As (%)	Ts (%)					
000220	Beige	street	77	18	5	74	5	58	0.24	0.24
		room	65	31	4	68	4	55	0.27	0.89
000202	White	street	77	19	4	73	3	58	0.24	0.31
		room	74	23	3	78	3	61	0.23	0.88
000207	Light Grey	street	77	20	3	73	3	58	0.24	0.33
		room	58	39	3	62	3	50	0.32	0.90
003007	Dark Grey	street	82	15	3	79	3	63	0.21	0.13
		room	12	86	2	12	2	21	0.52	0.89
003030	Black	street	76	20	4	73	4	58	0.25	0.23
		room	5	92	3	5	3	16	0.56	0.88

*__Room side__: identified by the color side; **Street side**: identified by the aluminum coated side

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Solar Transmittance (Ts), Solar Reflectance (Rs), 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 7.3 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. Emissivity was tested in accordance with ASTM C1371. 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: do not use radio frequency or high frequency welding machines. Heat impulse welding equipment is recommended.

Fire Classifications:

NFPA 701-10 TM#1, California U.S. Title 19

CAN/ULC-S109-03 Small Flame Test

Bacterial and Fungal Resistance:

ASTM E2180, ASTM G21

Environmental Benefits:

RoHS - Lead Free

Acoustical Performance:

NRC: 0.30, SAA: 0.28

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

Care & Handling

Storage: fabric needs to be stored in cardboard tubes to prevent bowing of the fabric or the inner core that the fabric is wrapped around.

Transportation: fabric should be shipped in the same cardboard tubes, or carefully bulk packaged to avoid crushing of the fabric.

Handling: fabric should always remain in its native outer packaging during storage, and/or moving. The fabric should be carried with an even distribution across the length of the roll. Cotton gloves should be worn when handling and fabricating blind, as perspiration, dirt, etc. can permanently affect the aluminum backing.

Placement: There needs to be at least 1" between finished shade and glass. Skylights require greater space between finished shade and glass to avoid thermal heat buildup.

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