



SPECIFICATION DATA –

Composition 36% Fiberglass/64% PVC
 Width 78" (200cm), 98.4" (250cm)
 Weight 12.7 oz/yd² (430g/m²) ± 5%
 Thickness 0.55mm (22 mil) ± 5%
 Yarn Count Warp/56 Weft/56 (per inch)
 Breaking Strength Warp ~ 231 / Weft ~ 246 (lbs/inch)

Fire Classification:
 NFPA 701-99 TM #1
 California U.S. Title 19

FENESTRATION PROPERTIES FOR 3G MERMET

Color Number & Name	Ts	Rs	As	Tuv	Tv	O-F	S/C (Internal)		
							1/8" CI	1/4" CI	1/4" H.A.
0202 White/White	17	63	20	4	12	4	0.36	0.36	0.33
0205 White/Canari	24	56	20	4	16	4	0.43	0.42	0.36
0210 White/Sable	19	48	33	4	11	4	0.47	0.46	0.38
0220 White/Linen	14	59	27	3	9	4	0.38	0.38	0.34
0222 White/Stone	19	56	25	3	13	4	0.41	0.41	0.36
0705 Perle/Canari	15	42	43	2	9	2	0.50	0.49	0.40
0707 Perle/Perle	11	34	55	2	7	3	0.55	0.53	0.42
0710 Perle/Sable	15	34	51	4	10	4	0.56	0.54	0.43
0720 Perle/Linen	10	43	47	2	7	3	0.48	0.47	0.39
0771 Perle/Apricot	20	39	41	5	11	5	0.54	0.52	0.42
2020 Linen/Linen	11	55	34	3	7	3	0.40	0.39	0.35
2022 Linen/Stone	15	52	33	2	9	3	0.43	0.42	0.37
3001 Charcoal/Gris	4	9	87	3	5	4	0.70	0.66	0.49
3006 Charcoal/Bronze	3	6	91	3	4	3	0.72	0.68	0.50
3009 Charcoal/Mandarine	6	13	81	4	4	3	0.68	0.65	0.48
3010 Charcoal/Sable	4	12	84	3	4	2	0.68	0.65	0.48
3030 Charcoal/Charcoal	3	4	93	2	4	3	0.73	0.69	0.51
3071 Charcoal/Apricot	5	14	81	3	4	3	0.67	0.64	0.48
3081 Charcoal/Parrot	4	14	82	3	4	3	0.67	0.63	0.48
3091 Charcoal/Sky	3	12	85	3	3	3	0.68	0.64	0.48

The solar transmittance (Ts), solar reflectance (Rs), solar absorptance (As), ultra-violet transmittance (Tuv), visible light transmittance (Tv) and Openness-Factor (O-F) were determined for the fabric alone. The Shading Coefficients (SC) were determined for the fabric used with a single light of 1/8" double strength glass, a 1/4" clear plate and a 1/4" heat absorbing (H.A.) plate. The Shading Coefficients are for the fabric hung internally unless otherwise indicated. The test data and calculated results are presented in the above table. The Ts, Rs, As, Tuv, Tv and O-F are expressed as percentages.

The above fenestration property tests were conducted by Matrix, Inc. at its Mesa, Arizona solar laboratory. The samples were tested in accordance with ASHRAE Standard 74-1988, "Methods of Measuring Solar-Optical Properties of Materials."

Understanding Solar Terminology

Solar Optical Properties

O-F = Openness Factor: The amount of sunlight that passes through the material.

TS=Solar Transmittance: The amount of solar energy (ultraviolet, visible and infrared) that is allowed to pass through a window and associated treatments

RS=Solar Reflectance: The total amount of heat that is reflected back out of the window glass and associated window treatment. Reflected heat is pushed out and consequently will not heat up the room.

AS=Solar Absorptance: The amount of total solar energy (ultraviolet, visible and infrared) that is neither reflected out nor transmitted in.

TV=Visual Transmittance: The amount of visible solar energy that is allowed to pass through a window and associated window treatment.

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. The lower the value the better the control. Lightest colors stop heat the best. Darker colors provide maximum glare reduction and outward visibility.



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