

Shadow - Sun-Gard Automotive Window Film

Single glazing using clear glass, thickness = 1/4"

Product Code	Summer Glass Temperature	Shading Coeff.	Total Solar Energy				Visible Light		UV Light	Eg*	"U" (S) Value	"U" (Wm) Value	"U" (Ws) Value
			Reject	Reflect	Absorb	Transmit	Reflect	Transmit					
1/4" clear glass	92.6 deg F	0.948	17.50%	7.10%	15.40%	77.50%	8.00%	88.10%	75%	0.84	1.03	1.03	1.09
Shadow 05	110.3 deg F	0.670	41.70%	6.30%	51.60%	42.10%	5.10%	5.30%	< 1%	0.86	0.95	1.02	1.03
Shadow 20	108.9 deg F	0.700	39.10%	5.70%	48.90%	45.40%	5.20%	19.20%	< 1%	0.87	0.96	1.02	1.03
Shadow 32	106.8 deg F	0.740	35.60%	5.40%	44.60%	50.00%	5.00%	29.60%	< 1%	0.88	0.97	1.03	1.04
Shadow 38	104.1 deg F	0.770	33.00%	6.10%	38.50%	55.40%	5.90%	39.20%	< 1%	0.87	0.96	1.02	1.03
Shadow 50	102.6 deg F	0.800	30.40%	5.90%	35.50%	58.60%	5.70%	49.30%	< 1%	0.87	0.96	1.02	1.03

Single glazing using clear glass, thickness = 1/8"

Product Code	Summer Glass Temperature	Shading Coeff.	Total Solar Energy				Visible Light		UV Light	Eg*	"U" (S) Value	"U" (Wm) Value	"U" (Ws) Value
			Reject	Reflect	Absorb	Transmit	Reflect	Transmit					
1/8" clear glass	89.4 deg F	1.000	13.00%	7.50%	8.80%	83.70%	8.10%	89.80%	75%	0.84	1.03	1.06	1.11
Shadow 05	107.8 deg F	0.700	39.10%	6.70%	46.60%	46.70%	5.00%	5.40%	< 1%	0.87	0.96	1.02	1.03
Shadow 20	107.2 deg F	0.720	37.40%	5.80%	45.60%	48.60%	4.90%	18.80%	< 1%	0.88	0.99	1.05	1.06
Shadow 32	104.9 deg F	0.760	33.90%	5.70%	40.70%	53.60%	4.90%	30.00%	< 1%	0.89	0.99	1.06	1.06
Shadow 38	102.1 deg F	0.800	30.40%	6.30%	34.40%	59.30%	5.70%	39.80%	< 1%	0.88	0.99	1.05	1.06
Shadow 50	93.3 deg F	0.840	26.90%	6.70%	28.50%	64.80%	6.00%	50.30%	< 1%	0.88	0.99	1.05	1.06

"U" (S) "U" Value calculated under SUMMER DAY conditions.

Eg* is Emissivity for #2 surface

"U" (Wm) "U" Value calculated under MILD WINTER conditions.

"U" (Ws) "U" Value calculated under SEVERE WINTER conditions.

Shading Coefficient calculated under SUMMER DAY conditions.

Summary of Seasonal Conditions:

	<u>Summer Day</u>	<u>Mild Winter</u>	<u>Severe Winter</u>
Temperature Inside	75 deg F	68 deg F	70 deg F
Temperature Outside	89 deg F	45 deg F	0 deg F
Solar Intensity	248.2 Btu/hr-ft2	0 Btu/hr-ft2	0 Btu/hr-ft2
Wind Velocity	7.5 MPH	15 MPH	15 MPH

Notes:

1. Performance results were generated from testing film applied to 1/4" clear, monolithic, annealed glass. Results have been calculated using the Lawrence Berkeley Lab's "Windows 5.2" software program. Tests, equipment and methods are in accordance with ASTM and NFRC standards. Performance results are subject to variations within industry standards.

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