

Black Lava - Sun-Gard Automotive Window Film



1/4 inches = 6 mm	Shading Coeff.	Total Solar Energy Reject	Solar Reflect	Solar Absorb	Solar Transmit	Visible Light Reflect (Ext.)	Visible Light Transmit	UV Trans.	Emissivity	"U" Value (S)	"U" Value (Wm)	"U" Value (Ws)	Heat Reduction	Glare Reduction
Black Lava 05	0.660	42.60%	5.00%	54.40%	40.60%	4.00%	4.40%	<1%	0.87	0.96	1.02	1.03	30.4%	95.0%
Black Lava 20	0.720	37.40%	5.20%	47.50%	47.30%	4.50%	18.60%	<1%	0.88	0.97	1.03	1.04	24.1%	78.9%
Black Lava 35	0.790	31.30%	5.40%	37.70%	56.90%	5.00%	40.80%	<1%	0.87	0.96	1.02	1.03	16.7%	53.7%
Black Lava 50	0.820	28.70%	6.10%	32.30%	61.60%	6.10%	51.90%	<1%	0.87	0.96	1.02	1.03	13.5%	41.1%

1/8 inches = 3 mm	Shading Coeff.	Total Solar Energy Reject	Solar Reflect	Solar Absorb	Solar Transmit	Visible Light Reflect (Ext.)	Visible Light Transmit	UV Trans.	Emissivity	"U" Value (S)	"U" Value (Wm)	"U" Value (Ws)	Heat Reduction	Glare Reduction
Black Lava 05	0.690	40.00%	5.20%	50.60%	44.20%	4.00%	4.50%	<1%	0.88	0.99	1.05	1.06	31.0%	95.0%
Black Lava 20	0.740	35.60%	5.60%	43.50%	50.90%	4.70%	18.70%	<1%	0.89	0.99	1.06	1.06	26.0%	79.2%
Black Lava 35	0.820	28.70%	5.60%	33.40%	61.00%	5.00%	41.40%	<1%	0.88	0.99	1.05	1.06	18.0%	53.9%
Black Lava 50	0.860	25.20%	5.80%	28.10%	66.10%	5.60%	52.90%	<1%	0.88	0.99	1.05	1.06	14.0%	41.1%

Summary of Seasonal Conditions:

	<u>Summer Day</u>	<u>Mild Winter</u>	<u>Severe Winter</u>
Temperature Inside	75 F / 24 C	68 F / 20 C	70 F / 21 C
Temperature Outside	89 F / 32 C	45 F / 7 C	0 F / -18 C
Solar Intensity	248.2 Btu/hr-ft ²	0 Btu/hr-ft ²	0 Btu/hr-ft ²
Wind Velocity	7.5 MPH / 4.6 KPH	15 MPH / 9 KPH	15 MPH / 9 KPH

Shading Coefficient calculated under SUMMER DAY conditions.

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

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

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

Notes:

1. Performance results were generated from testing film applied to 1/4" and 1/8" 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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