

Quartz - Diamond 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
Quartz 05	0.710	38.20%	5.60%	47.50%	46.90%	4.50%	6.20%	<1%	0.86	0.95	1.02	1.03	25.1	93.0
Quartz 20	0.760	33.90%	5.70%	40.20%	54.10%	4.80%	22.50%	<1%	0.86	0.95	1.02	1.03	19.8	74.5
Quartz 32	0.780	32.10%	6.20%	37.30%	56.50%	4.90%	30.80%	<1%	0.84	0.94	1.00	1.02	17.7	65.0
Quartz 38	0.820	28.70%	5.70%	32.80%	61.50%	5.20%	42.00%	<1%	0.86	0.95	1.02	1.03	13.5	52.3
Quartz 50	0.840	26.90%	6.50%	29.90%	63.60%	5.90%	49.50%	<1%	0.84	0.94	1.00	1.02	11.4	43.8

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
Quartz 05	0.730	36.50%	5.80%	44.90%	49.30%	4.50%	6.20%	<1%	0.87	0.98	1.04	1.05	27.0	93.1
Quartz 20	0.780	32.10%	5.90%	37.40%	56.70%	4.80%	22.60%	<1%	0.87	0.98	1.04	1.05	22.0	74.8
Quartz 32	0.800	30.40%	6.50%	34.40%	59.10%	5.00%	30.90%	<1%	0.85	0.97	1.03	1.04	20.0	65.6
Quartz 38	0.840	26.90%	6.10%	29.80%	64.10%	5.40%	42.20%	<1%	0.87	0.98	1.04	1.05	16.0	53.0
Quartz 50	0.850	26.10%	6.90%	26.90%	66.20%	6.10%	49.70%	<1%	0.85	0.97	1.03	1.04	15.0	44.7

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-ft2	0 Btu/hr-ft2	0 Btu/hr-ft2
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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