

HP Charcoal - 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
HP Charcoal 04	0.540	53.00%	8.70%	64.10%	27.20%	4.70%	3.90%	<1%	0.81	0.93	0.98	1.00	43.0%	95.6%
HP Charcoal 15	0.570	50.40%	8.40%	60.80%	30.80%	5.20%	14.60%	<1%	0.82	0.93	0.99	1.01	39.9%	83.4%
HP Charcoal 22	0.590	48.70%	8.00%	58.90%	33.10%	5.60%	22.50%	<1%	0.81	0.92	0.98	1.00	37.8%	74.5%
HP Charcoal 32	0.650	43.50%	8.30%	51.10%	40.60%	6.30%	33.20%	<1%	0.84	0.94	1.00	1.02	31.4%	62.3%
HP Charcoal 38	0.670	41.70%	8.90%	47.00%	44.10%	7.70%	40.10%	<1%	0.84	0.94	1.00	1.02	29.3%	54.5%

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
HP Charcoal 04	0.540	53.00%	8.70%	63.30%	28.00%	4.30%	3.70%	<1%	0.82	0.95	1.01	1.03	46.0%	95.9%
HP Charcoal 15	0.580	49.50%	8.30%	59.90%	31.80%	4.80%	14.60%	<1%	0.83	0.96	1.02	1.03	42.0%	83.7%
HP Charcoal 22	0.600	47.80%	8.50%	56.10%	35.40%	5.50%	22.80%	<1%	0.82	0.95	1.01	1.03	40.0%	74.6%
HP Charcoal 32	0.660	42.60%	8.40%	49.70%	41.90%	6.30%	33.20%	<1%	0.85	0.97	1.03	1.04	34.0%	63.0%
HP Charcoal 38	0.680	40.80%	9.00%	45.90%	45.10%	7.40%	40.20%	<1%	0.85	0.97	1.03	1.04	32.0%	55.2%

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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