

## Endurance - 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
Endurance 14	120.4 deg F	0.380	66.90%	13.00%	76.20%	10.80%	16.90%	11.70%	< 5%	0.83	1.13	1.03	1.08
Endurance 20	117.2 deg F	0.430	62.60%	14.40%	68.40%	17.20%	18.00%	19.80%	< 5%	0.85	1.13	1.04	1.09
Endurance 32	114.6 deg F	0.500	56.50%	11.50%	63.40%	25.10%	14.10%	28.90%	< 5%	0.85	1.12	1.04	1.09
Endurance 38	111.5 deg F	0.570	50.40%	10.20%	56.50%	33.30%	12.40%	38.50%	< 5%	0.86	1.11	1.04	1.09
Endurance 50	107.3 deg F	0.650	43.50%	10.00%	47.00%	43.00%	12.87%	48.30%	< 5%	0.85	1.09	1.04	1.09

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
Endurance 14	118.4 deg F	0.370	67.80%	15.30%	73.90%	10.80%	18.60%	11.10%	< 5%	0.83	1.15	1.05	1.10
Endurance 20	114.5 deg F	0.440	61.70%	16.00%	65.40%	18.60%	18.60%	20.30%	< 5%	0.86	1.15	1.07	1.12
Endurance 32	112.7 deg F	0.510	55.60%	12.50%	61.20%	26.30%	14.40%	28.80%	< 5%	0.86	1.14	1.07	1.12
Endurance 38	109.1 deg F	0.600	47.80%	11.00%	52.90%	36.10%	12.40%	39.00%	< 5%	0.87	1.14	1.07	1.12
Endurance 50	104.9 deg F	0.680	40.80%	10.70%	43.10%	46.20%	13.10%	49.20%	< 5%	0.86	1.11	1.07	1.12

"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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