



SAFETY & SECURITY

Test Results of Clear and Solar Window Film

Performance Results

Performance results were generated from testing using 1/8th" (3mm) thick clear glass and have been measured, calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Performance results are subject to variations within industry standards. Performance results are subject to variations within industry standards. For testing on other glass types/thicknesses, contact your area [service center](#).

FILM TYPE	Adhesive	Solar Energy			Visible Light			Thermal Energy			UV Light T (%)	Total Solar Energy Rejected (%)				
		PSA	CDA	T (%)	A (%)	R (%)	T (%)	A (%)	Exterior R (%)	Interior R (%)			E	Summer U-Value	Winter U-Value	SC
Clear Safety & Security																
2 Mil Clear	•		83	9	8	90	1	9	9	.87	1.04	1.12	.99	.85	<2	14
4 Mil Clear	•		79	13	8	89	2	9	9	.90	1.07	1.14	.96	.82	<2	16
7 Mil Clear	•		79	13	8	88	2	10	10	.90	1.05	1.11	.95	.82	<2	17
8 Mil Clear	•		82	9	9	89	1	10	10	.89	1.06	1.13	.98	.84	<2	15
10 Mil Clear	•		77	14	9	87	2	11	11	.88	1.06	1.13	.94	.81	<2	18
11 Mil Clear	•		78	13	9	88	2	10	10	.89	1.07	1.13	.95	.82	<2	17
14 Mil Clear	•		76	15	9	87	2	11	11	.89	1.07	1.13	.93	.80	<2	19
Solar Safety & Security																
4 Mil Stainless Steel 50 <i>Formerly 4 Mil Stainless Steel 150</i>	•		42	46	12	47	39	14	11	.90	1.14	1.14	.65	.56	<2	43
4 Mil Stainless Steel 35 <i>Formerly 4 Mil Stainless Steel 160</i>	•		39	47	14	42	41	17	14	.84	1.11	1.11	.60	.52	<2	48
4 Mil Stainless Steel 30 <i>Formerly 4 Mil Stainless Steel 165</i>	•		30	53	17	33	47	20	18	.88	1.14	1.13	.53	.45	<2	54
4 Mil Stainless Steel 20 <i>Formerly 4 Mil Stainless Steel 175</i>	•		21	56	23	22	51	27	25	.85	1.13	1.11	.43	.37	<2	63
8 Mil Stainless Steel 50 <i>Formerly 8 Mil Stainless Steel 150</i>	•		40	49	11	44	42	14	11	.88	1.13	1.13	.62	.54	<2	46
8 Mil Stainless Steel 35 <i>Formerly 8 Mil Stainless Steel 160</i>	•		34	52	14	38	46	16	13	.88	1.14	1.13	.57	.49	<2	50
8 Mil Stainless Steel 20 <i>Formerly 8 Mil Stainless Steel 175</i>	•		19	59	22	21	52	27	24	.86	1.14	1.12	.42	.36	<2	63
10 Mil Stainless Steel 50	•		45	43	12	49	37	14	11	.87	1.12	1.12	.67	.57	<2	42
10 Mil Stainless Steel 35	•		37	48	15	41	42	17	14	.89	1.14	1.13	.60	.51	<2	36
4 Mil Solar Bronze 35 <i>Formerly 4 Mil Solar Bronze 165</i>	•		19	39	42	31	40	29	27	.68	1.01	1.03	.34	.29	<2	70
4 Mil Solar Bronze 20 <i>Formerly 4 Mil Solar Bronze 175</i>	•		9	41	50	18	44	38	40	.68	1.01	1.03	.23	.20	<2	80
4 Mil Silver 20 <i>Formerly 4 Mil Silver 80</i>	•		11	37	52	15	26	59	60	.71	1.02	1.04	.24	.20	<2	79
8 Mil Silver 35	•		23	42	35	32	37	31	31	.73	1.04	1.05	.40	.34	<2	65
8 Mil Silver 20 <i>Formerly 8 Mil Silver 80</i>	•		10	39	51	14	28	58	59	.70	1.02	1.04	.24	.20	<2	79
10 Mil Silver 20 <i>Formerly 10 Mil Silver 80</i>	•		12	39	49	17	27	56	55	.70	1.02	1.04	.26	.22	<2	77

Legend

T = Transmittance A = Absorptance R = Reflectance E = Emissivity
 U-Value = Heat Transfer Coefficient SC = Shading Coefficient SHGC = Solar Heat Gain Coefficient UV = Ultraviolet

Conversions

2 Mil = 50 micron 4 Mil = 100 micron 7 Mil = 175 micron 8 Mil = 200 micron
 10 Mil = 250 micron 11 Mil = 275 micron 14 Mil = 350 micron

Film line-up and performance results updated 9/01.

All Armorcoat film products are sold through exclusive program dealers.

Click [here](#) to view the performance results disclaimer.

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