



GTA: 905-761-2070
Toll Free: 1-877-553-7776

Safety & Security Film Performance Measurements

	 % Visible Light				 % Total Solar Energy											
Film	Trans.	Reflected External	Reflected Internal	Glare Reduction	Trans.	Reflected External	Absorbed	Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	U Factor	UV Rejection	Emissivity	Light to Solar Gain	Total Solar Energy Rejected (TSER)	IR Rejection*	Infrared Energy Rejection (IRER)
Clear 4 Mil	87%	9%	9%	2%	75%	8%	18%	0.92	0.80	1.03	≥ 99%	0.86	1.08	20%	31%	23%
Clear 7 Mil	88%	9%	9%	1%	75%	7%	18%	0.93	0.81	1.05	≥ 99%	0.91	1.09	20%	32%	23%
Clear 8 Mil	86%	9%	9%	3%	73%	8%	20%	0.90	0.79	1.05	≥ 99%	0.90	1.09	21%	36%	26%
Clear 14 Mil	87%	9%	9%	3%	75%	8%	18%	0.92	0.80	1.03	≥ 99%	0.87	1.08	20%	33%	23%
Silver 20 4 Mil	18%	55%	57%	80%	12%	45%	43%	0.27	0.24	0.90	≥ 99%	0.60	0.75	76%	95%	78%
Silver 40 4 Mil	44%	27%	26%	51%	32%	24%	44%	0.51	0.44	0.94	≥ 99%	0.68	0.99	56%	82%	62%
Silver 20 8 Mil	17%	56%	58%	81%	12%	45%	43%	0.27	0.23	0.88	≥ 99%	0.58	0.74	77%	95%	78%
Silver 40 8 Mil	44%	28%	27%	51%	31%	24%	45%	0.51	0.44	0.95	≥ 99%	0.70	0.99	56%	83%	62%
Neutral Grey 35 8 Mil	36%	15%	22%	60%	28%	15%	57%	0.51	0.45	0.96	≥ 99%	0.73	0.80	55%	82%	59%
Neutral Grey 45 8 Mil	43%	14%	17%	51%	34%	14%	52%	0.57	0.49	0.95	≥ 99%	0.71	0.88	51%	76%	55%
Clear 7 Mil Exterior	88%	8%	8%	1%	76%	7%	18%	0.93	0.81	1.02	≥ 99%	0.87	1.09	19%	32%	23%
Graffiti-Free® 4 Mil	89%	9%	9%	1%	77%	8%	15%	0.94	0.82	1.02	≥ 99%	0.84	1.08	18%	28%	21%
Graffiti-Free® 6 Mil	87%	10%	10%	3%	76%	9%	15%	0.93	0.81	1.02	≥ 99%	0.84	1.07	19%	29%	22%
12 Mil Frost Matte	66%	20%	20%	26%	60%	16%	24%	0.78	0.68	1.01	≥ 99%	0.83	0.98	32%	44%	32%

Read in accordance with National Fenestration Rating Council (NFRC) standards and calculated on single pane 6mm (1/4") clear glass.

*IR Rejection is tested in the IR range of 780 to 2500 nanometers.



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Physical Properties	Film Thickness	Structural Component	Structure	Adhesive Type	Tensile Strength	Break Strength	Peel Strength
Clear 4 Mil	0.0045"	0.004"	Single Ply	 Acrylic Pressure Sensitive	 25,000 PSI Avg. MD/TD	100 lbs. Per Inch (Width)	 5 to 6 lbs. Per Inch
Clear 7 Mil	0.008"	0.007"	Single Ply			175 lbs. Per Inch (Width)	
Clear 8 Mil	0.0095"	0.008"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Clear 14 Mil	0.014"	0.0135"	Multi-Ply Laminate			325 lbs. Per Inch (Width)	
Silver 20 4 Mil	0.005"	0.0045"	Multi-Ply Laminate			100 lbs. Per Inch (Width)	
Silver 40 4 Mil	0.005"	0.0045"	Multi-Ply Laminate			100 lbs. Per Inch (Width)	
Silver 20 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Silver 40 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Neutral Grey 35 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Neutral Grey 45 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Clear 7 Mil Exterior	0.008"	0.007"	Single Ply			175 lbs. Per Inch (Width)	
Graffiti-Free® 4 Mil	0.004"	0.004"	Single Ply			100 lbs. Per Inch (Width)	 3 to 4 lbs. Per Inch
Graffiti-Free® 6 Mil	0.007"	0.006"	Multi-Ply Laminate			150 lbs. Per Inch (Width)	
12 Mil Frost Matte	0.013"	0.012"	Multi-Ply Laminate			250 lbs. Per Inch (Width)	

Specifications are approximate and may vary by manufacturer. Final recommendations are provided after an on-site assessment by WindowTech.