





3M™ Safety & Security Window Film

Safety S70 Exterior

Product Features & Benefits

- Dual purpose Exterior / Interior film
- Outstanding exterior weatherability
- Optically clear, 7 mil (180 μm) thick film
- Suitable for enhanced protection upon spontaneous glass breakage of tempered glass
- Provides shatter resistance to help protect against broken glass hazards caused by seismic activity, and other moderate force impact events
- Suggested uses: to help secure exterior facing glass such as balcony glass, balustrades, skylights, outer pane of multiple glazed units, curtain walls, oversized glass panes
- Use with 3M Impact Protection Attachment Systems to enhance glass retention

Product Performance & Technical Data

Safety S70 Exterior								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Safety S70 Exterior	1/4" tint	Safety S70 Exterior	Dual 1/4" clear	Safety S70 Exterior	Dual 1/4" tint	Safety S70 Exterior
Solar Heat Gain Coefficient	0.82	0.79	0.63	0.62	0.70	0.68	0.51	0.50
Visible Light Transmitted	89%	88%	53%	53%	79%	79%	47%	47%
Visible Light Reflected Interior	9%	8%	6%	6%	15%	15%	13%	13%
Visible Light Reflected Exterior	8%	8%	6%	6%	15%	15%	9%	8%
U Value	1.03	1.02	1.03	1.02	0.47	0.47	0.47	0.47
UV Block	38%	99.9%	NA	99.9%	NA	99.9%	NA	99.9%
Total Solar Energy Rejected	19%	21%	37%	38%	30%	32%	49%	51%
Glare Reduction	NA	0%	NA	0%	NA	0%	NA	1%
Heat Loss Reduction	NA	1%	NA	0%	NA	0%	NA	0%
Solar Heat Reduction	NA	2%	NA	2%	NA	3%	NA	2%

Film Properties* (nominal)

Product	Film Thickness	Single or Multi-ply	Tensile Strength	Break Strength	Elongation at Break	Peel Strength	Abrasion Resistance
Safety S70 Exterior	7 mil (180 micron)	Single	22,000 psi	140 lbs/in	> 70 %	> 5 lbs/in	5% haze increase

*not for specification purposes

Important:

The information provided in this report is believed to be reliable; however, due to the wide variety of intervening factors, 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.



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