





### Product Features and 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 S70X								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Safety S70X	1/4" tint	Safety S70X	Dual 1/4" clear	Safety S70X	Dual 1/4" tint	Safety S70X
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 S70X	0.007"	Single	23,000 psi (MD) / 28,000 psi (TD)	178 lbs/in	150 %	5 lbs/in	< 5% haze increase

**IMPORTANT NOTICE:**

This product is **not approved** in the State of Florida for use as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm. In compliance with Florida Statute 553.842, this product may not be advertised, sold, offered, provided, distributed, or marketed in the State of Florida as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm.

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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## Health and Safety

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products go to [3M.com/SDS](http://3M.com/SDS), or by mail or in case of an emergency, call 1-888-364-3557 or 1-651-737-6501. When using any equipment, always follow the manufacturers' instructions for safe operation.

## Technical Information

Technical information and data, recommendations, and other statements provided by 3M are based on information, tests, or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed. Such technical information and data are intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. The typical values shown should not be used for the purpose of specification limits. If you have questions about this Product, contact the Customer Service Department at 1-888-616-1488.

## Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

## Warranty

3M warrants that each 3M product will be free from defects in material and manufacture for the length of the product warranty. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## Limited Remedy

If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

## No Extension of Warranty

In the case of an approved warranty claim, the replacement Product will carry only the remaining term of the original warranty period.

## Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

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