

Commercial Solutions Division

3M™ Scotchshield™ Ultra Solar Safety

Window Film

Ultra Prestige S70

Product Bulletin

1. Product Description

3M™ Scotchshield™ Ultra Prestige S70 is a combined solar and safety window film consisting of a multi-layered, tear-resistant safety film combined with a high performance, multilayered optical film. Scotchshield™ Ultra Prestige S70 is a metal-free product.

2. Applications

3M™ Scotchshield™ Ultra Solar Safety films are intended for interior application on flat glass substrates.

3. Typical Properties

Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

3M™ Scotchshield™ Ultra solar safety window films have been tested and classified according to EN 12600 Pendulum impact resistance and GSA international blast standards.

Flammability

Flammability standards are different from country to country. Please ask your local 3M contact for details.

Product construction	
Material base, optical film	Multi-layered PET/PMMA
Adhesive	Pressure sensitive acrylic
Material base, safety film	Multi-layered PET
Adhesive	Pressure sensitive acrylic
Protective liner	Siliconized PET

The following are indicative values for 3M™ Window Film products.

Typical Performance Properties								
Film Type	Film Thickness	Tensile Strength according to EN 527-2/1B/50		Elongation according to EN 527-2/1B/50		Tear resistance according to EN 34-1/B1		Abrasion resistance according to D1003 and ASTM D1044
		MPa	MPa	%	%	Nmm	Nmm	Delta Haze
	Micron (µm)	Machine direction	Transverse direction	Machine direction	Transverse direction	Machine direction	Transverse direction	%
Ultra Prestige S70	210	179	176	110	93	940	900	< 5

Typical Performance Properties according to EN 410									
Glass type	Film Type	Visible Light			Total Solar Energy Rejected	G Value (SHGC)	UV Block	Heat Gain Reduction	Glare Reduction
		Reflected (interior)	Reflected (exterior)	Transmission					
Single Pane		%	%	%	%		%	%	%
Clear	No Film	9	8	89	19	0.82	NA	NA	NA
	Ultra PR S70	9	10	68	50	0.50	99.9	38	23
Tinted	No Film	6	6	53	37	0.63	NA	NA	NA
	Ultra PR S70	8	6	41	56	0.44	99.9	30	23
Double Pane									
Clear	No Film	15	15	79	30	0.70	NA	NA	NA
	Ultra PR S70	13	16	61	44	0.56	99.9	20	23
Tinted	No Film	13	8	47	49	0.51	NA	NA	NA
	Ultra PR S70	12	9	37	58	0.42	99.9	17	23

The values above are the results of illustrative lab test measurements and shall not be considered as a commitment from 3M.

4. User Information

4.1 Shelf Life & Storage (prior to application)

Shelf life is 5 years from the manufacturing date. Material should be stored in its original packaging, laying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Recommended storage conditions are +21°C and 40 – 50% relative humidity. Avoid extreme temperature ranges in storage.

The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty.

4.2 Application

These are indicative values for 3M™ Window Film products.

Recommended substrate	Glass (as described in EN 15755-1)
Recommended surface	Flat to simple curved
Application method	Suitable for wet application or dry semi-automatic lamination
Application temperature	From +8°C to +45°C
Application guidelines	Use a firm, narrow squeegee e.g. Blue Max 12.7cm. Use both hands to apply consistent, firm pressure across the squeegee blade. Overlap 50% from previous stroke. Remove as much water pass as possible in one pass.
Service temperature	From -40°C to +80°C
Edge sealing	Recommended on horizontal applications. Not necessary on vertical applications except where moisture can accumulate for an extended time.
Drying Time	Final adhesion is dependent of film thickness and prevailing drying conditions. Typical cure times for films > 200µm < 300µm = 100 days Please refer to local instructions for details

4.3 Maintenance and Cleaning

Use a cleaning agent designed for high quality glass surfaces. The cleaning agent must be wet and non- abrasive with a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline).

5. Remarks

This bulletin provides technical information only.

To request additional product information see address below.

Important Notice

All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Responsible for this technical bulletin:



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