3M ™ Safety Film Safety S70

Description

3M™ Safety Film Safety S70 is designed for use on the interior surface of windows. It is composed of a transparent and weather stable polyester film, scratch resistant surface and a strong acrylic adhesive. The films high tensile strength and elongation at break increases resistance of the glazing system to impact and pressure. The film also significantly reduces the transmission of UVA and UVB rays which are the main cause of fading.

3M™ Safety Films provide an effective protection from injuries to persons or damage to items caused the fragments of broken glass. In the case of glass breakage the fragments are held together by the strong acrylic adhesive.

3M™ Safety Film S 70 has been tested and approved according to EN 12600 (Pendulum test). It is classed as 1B1 on 4 mm float glass. Safety S 70 is approved for the use on vehicles according to ABG No. D-5235 in Germany and CH-KO1-06132 in Switzerland.

Features (on 6 mm clear glass)

Glare reduction:	9 %
UV rays blocked:	98 %

Rated Class A fire resistant according to ASTM E84.

Film properties

Thickness:	0.175 mm/ 175 µm
Colour:	Clear
Material:	Polyester
Adhesive:	Pressure sensitive acrylic
Top coating:	Scratch resistant hard coat

Installation

3M Window films are installed using a water and soap solution. Full adhesion is reached after approximately 20 days at 18°C (in dry conditions).

Cleaning

3M Window films may be cleaned 30 days after installation using ordinary window cleaning agents and avoiding the use of abrasive particles. Do not use rough sponges, cloths or brushes. Synthetic sponges, soft wipes or rubber squeegee cleaners are recommended.

Glass type	Film Type	Visible Light Transmitted %	Visible Light Reflected Interior %	Tensile Strength ASTM D882-95a	Elongation at break ASTM D882-95a	Break strength ASTM D882-95a	Tear Resistance ASTM D 1938-02	Puncture Propagation ASTM D2582-03
Single Pane				N/ 25,4 mm	N/25,4 mm	N/25,4mm		
Clear	No Film	89	9					
	Safety S70	**86**	**9**	**197 N/mm²**	**120 %**	**79 kg**	**1,04 kg**	**2,31 kg**
Tinted	No Film	53	6					
	Safety S70	**47**	**6**	**197 N/mm²**	**120 %**	**79 kg**	**1,04 kg**	**2,31 kg**
Douple Pane								
Clear	No Film	79	15					
	Safety S70	**77**	**16**	**197 N/mm²**	**120 %**	**79 kg**	**1,04 kg**	**2,31 kg**
Tinted	No Film	47	13					
	Safety S70	**43**	**8**	**197 N/mm²**	**120 %**	**79 kg**	**1,04 kg**	**2,31 kg**

General notes:
All 3M Safety films have been tested to EN12600 and/or EN356 as appropriate. For detailed information and relevant certification for any specific project, please contact your local 3M specialist.
All technical data is based on a combination of relevant European test methods and/or US test methods. Before using this product the customer / applicator must ensure the product is suitable to be used for the intended purpose. If there is any uncertainty, please check with your local 3M Window Film specialist. All issues

3M

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Window Films
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regarding warranty and liability for the product and the effect of its use are governed in accordance with the provisions of the appropriate contract of sale unless local laws dictate otherwise.

3M ™ Safety & Security Film

Safety S70

- Increases protection from flying or broken glass.
- Deters smash and grab burglaries.
- Reduces fading from UV light.
- Helps preserve the appearance of furniture and fabrics.
- Has an abrasion resistant surface to maintain a good appearance for longer.

window films made by 3M

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