

# 3M™ Safety Film Safety S140

## Description

**3M™ Safety Film Safety S140** 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 140 has been tested and approved according to EN 3560 (Falling Ball test). It is classified as P2A on 6mm float glass.**

## 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: 0.350 mm/ 350 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
<b>Single Pane</b>				N/ 25,4 mm	N/25,4 mm	N/25,4mm		
Clear	No Film	89	9	197 N/mm <sup>2</sup>	130 %	163 kg	1,09 kg	8,39 kg
	<b>Safety S140</b>	<b>85</b>	<b>10</b>					
Tinted	No Film	53	6	197 N/mm <sup>2</sup>	130 %	163 kg	1,09 kg	8,39 kg
	<b>Safety S140</b>	<b>47</b>	<b>6</b>					
<b>Double Pane</b>								
Clear	No Film	79	15	197 N/mm <sup>2</sup>	130 %	163 kg	1,09 kg	8,39 kg
	<b>Safety S140</b>	<b>72</b>	<b>16</b>					
Tinted	No Film	47	13	197 N/mm <sup>2</sup>	130 %	163 kg	1,09 kg	8,39 kg
	<b>Safety S140</b>	<b>43</b>	<b>8</b>					

## 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 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.

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## 3M™ Safety Film Safety S140

- 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.

**3M**