

# 3M™ Safety & Solar Film ULTRA PR S70

## Description

**3M™ Safety Solar Film Ultra PR S70** is designed for use on the inside surface of windows. This film has a unique multilayer construction based on nanotechnologies. Ultra Safety Films are 32 times more resistant against tearing than ordinary safety films of the same thickness. Therefore the resistance of glass / film to penetration and failure is significantly increased. 3M Safety Films Ultra are highly resistant to tear and the stable acrylic adhesive retains long lasting transparency.

**3M Safety Solar Film Ultra PR S70** has a unique high visual light transmission for a film that has exceptionally high heat rejection capabilities. The film significantly reduces the amount of UVA and UVB rays which are the main cause of fading. The patented multi layer construction and manufacturing process, guarantees a high quality and an even longer warranty and life expectancy compared with other film solutions.

**3M™ Safety Solar Film Ultra PR S70** significantly reduces heat and contributes to crating a balanced environment within a building. Especially in summer months, it helps to reduce the workload of air conditioners and save on energy costs.

**3M™ Safety Solar Films Ultra** provide an effective protection from injuries or damage to items caused the fragments of broken glass. In the case of glass breakage, the fragments are held together due to a strong acrylic adhesive.

## Features (on 6 mm clear glass)

Total Solar Energy rejection:	50 %
TSER measured at 60° angle	59 %
IR – rejection	97 %
G-value	0.50
Glare reduction:	22 %
UV rays blocked:	99.9 %

## Structure of the film

Thickness:	0,150 mm /150 µm
Colour:	Virtually Clear
Material of the film:	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 common 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	Shading Coefficient	Visible Light Reflection Exterior	Visible Light Reflection Interior	Visible Light Transmission	U-value	G-value	TSER
<b>Single Pane</b>								
Clear	No Film	0.94	8 %	9 %	89%	1.03	0.82	18 %
	<b>Ultra PR S70</b>	<b>0.58</b>	<b>9 %</b>	<b>9%</b>	<b>69%</b>	<b>0.99</b>	<b>0.50</b>	<b>50 %</b>
Tinted	No Film	0.72	6 %	6 %	53%	1.03	0.63	37 %
	<b>Ultra PR S70</b>	<b>0.50</b>	<b>6 %</b>	<b>7 %</b>	<b>42%</b>	<b>0.99</b>	<b>0.43</b>	<b>57 %</b>
<b>Double Pane</b>								
Clear	No Film	0.80	15 %	15 %	79%	0.47	0.70	30 %
	<b>Ultra PR S70</b>	<b>0.64</b>	<b>15 %</b>	<b>13 %</b>	<b>62%</b>	<b>0.47</b>	<b>0.56</b>	<b>44 %</b>
Tinted	No Film	0.58	8 %	13 %	47%	0.47	0.51	49 %
	<b>Ultra PR S70</b>	<b>0.48</b>	<b>8 %</b>	<b>12 %</b>	<b>37%</b>	<b>0.47</b>	<b>0.42</b>	<b>58 %</b>

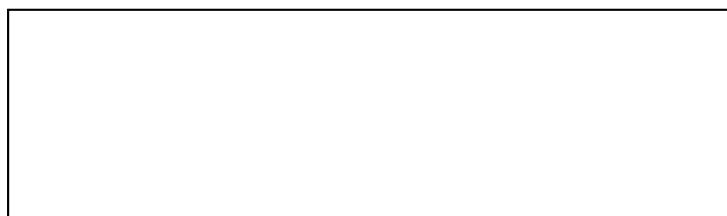
### General notes:

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.



Renewable energy Division  
Window Films  
[www.3M.com/windowfilms](http://www.3M.com/windowfilms)





## **3M™ Safety & Solar Film**

### **ULTRA PR S70**

- **Reduces air conditioning costs.**
- **Low interior and exterior reflection.**
- **Increases protection from flying or broken glass.**
- **Deters smash and grab burglaries.**
- **Helps preserve the appearance of furniture and fabrics.**
- **An abrasion resistant surface to maintain a good appearance for longer.**
- **Easy to remove without adhesive residues.**