

Solar Screen

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EXTERNAL SAFETY 4mil 100 MICRON

Safety

Security - Prevention

Description

Improve the safety of your glazing with our Safety 4mil 100 Micron Clear Window Film. Designed for internal installation, this transparent safety film helps hold broken glass fragments together in the event of impact or accidental breakage, reducing the risk of injury from shattered glass.

With a 100 micron (4mil) thickness, this film provides an additional protective layer while maintaining natural daylight and clear outward visibility.

Compliant with European Standard BS EN 12600, Safety 4mil offers a practical solution for improving glazing safety in homes, offices, schools, shops, and commercial properties.

Certifications

REACH / RoHS
Compliant

Fire Resistance Rating
M1

View test videos on the safety film

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Characteristics

Warranty
Up to 3 years

Fire Resistance Rating
M1

Storage in recommended conditions
3 years

REACH / RoHS
Compliant

Widths Available
122 cm, 152 cm, 183 cm

Installation Type
Exterior

Color From the Outside
Transparent

Length
30.5 m

Product Carbon Footprint (LCA)
2.42 kgCO2e/m²

Construction

1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
2 High optical quality polyester
3 Bonding adhesive
4 High optical quality polyester
5 Reinforced PS adhesive to accompany the elasticity of the film in case of impact, polymerizes with glass within 30 days
6 Protection PET release liner, disposable after installation

Composition
PET

Thickness
125 µm

Mechanical Properties

Tensile force at break
28 kg/cm

Elongation at break
125%

Optical and solar properties

	Single 3mm		Double Low-E	
Pane type	No film	With Film	No film	With Film
UV Rejection (%)	25	95	40	99
Visible Light Transmission (%)	**91**	**85**	**82**	**77**
Visible Light Reflection - External (%)	8	11	11	14
Visible Light Reflection - Internal (%)	8	11	12	14
Solar Energy Reflection (%)	5	8	28	14
Solar Energy Absorption (%)	8	16	12	25
Solar Energy Transmission (%)	87	76	60	51
Total Solar Energy Rejected (%)	**12**	**20**	**35**	**41**
Glare Reduction (%)	-	14	-	6
Shading Coefficient	-	0.90	-	0.88
g-value	**0.88**	**0.80**	**0.65**	**0.57**
U-value (W/m².°C)	5.8	5.8	1.1	1.1

Application advice[01]

Vertical situation and for a standard glazed surface

Clear Single Pane	✓
Tinted Single Pane	✓
Reflective Tinted Single Pane	✓
Clear Double Pane	✓
Tinted Double Pane	✓
Reflective Tinted Double Pane	✓
Gas-Filled Double Pane - Low E	✓
Stadip Ext. Clear Double Pane	✓
Stadip Int. Clear Double Pane	✓

✓ Yes × Not recommended ! Caution

Installation and Maintenance Advise

Safety film with reinforced PS adhesive, requiring a suitable application solution : Slide On (600-FO2) or Film On (600-F0355) diluted at 2 cL/L of water, and a suitable safety squeegee (150-054 / 150-055 / 150-056). Do not clean for at least one month or apply stickers/adhesives to the film.

Download the installation and maintenance advice

01 Advice based on glazed surface area up to 2.5 m², please contact us for any confirmation or thermal shock analysis.
The data in this information sheet is not contractual, SOLAR SCREEN reserves the right to modify the composition of its products at any time. Please refer to our warranties and general sales conditions.