

3M™ Safety & Solar Film Silver S420

Description

3M™ Safety Solar Film Silver S420 is designed for use on the inside surface of windows. It consists of a clear, single-layered polyester film coated with a strong adhesive and a metalized film layer for sun protection. Unlike other sun control solutions, this film reflects the sun's rays while allowing optical clarity to be maintained.

3M™ Safety Solar Film Silver S420. This system is designed to protect glazing surfaces from damage and to hold broken glass together for improved safety. It gives effective protection from injuries or damage caused by fragments of broken glass. In the case of glass breakage, the fragments are held together by the strong acrylic adhesive system.

3M™ Safety Solar Film Silver S420 reduces heat gain and contributes to a balanced environment within a building. Especially in summer months, it helps to reduce the workload of air conditioners, therefore reducing energy costs.

In addition, the film significantly reduces the amount of UVA and UVB sunrays from entering a building. These are the main cause of fading.

Features (on 6 mm clear glass)

Total solar energy reduction:	77 %
G-value:	0.23
Reduction of Glare:	78 %
Reduction of UV rays:	99 %

Structure of the film

Thickness:	0,125 mm / 125µm
Colour:	Silver
Material of the film:	Polyester
Adhesive:	Special 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	Shading Coefficient	Visible Light Reflection	Visible Light Transmission	U-value	G-value	TSER
Single Pane							
Clear	No Film	0.94	8 %	88 %	1.06	0.82	18 %
	Silver S420	0.26	51 %	17 %	0.95	0.22	78 %
Tinted	No Film	0.69	5 %	50 %	1.06	0.60	40 %
	Silver S420	0.30	20 %	10 %	0.95	0.26	74 %
Double Pane							
Clear	No Film	0.81	14 %	78 %	0.50	0.70	30 %
	Silver S420	0.34	51 %	17 %	0.47	0.30	70 %
Tinted	No Film	0.55	8 %	45 %	0.50	0.48	52 %
	Silver S420	0.28	20 %	9 %	0.47	0.24	76 %

General notes:

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
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3M™ Sun Control Window Film

3M™ Safety & Solar Film Silver S420

- Excellent solution to reduce solar heat gain
- Reduces air conditioning costs
- Reduces glare and discomfort
- Increases protection from flying or broken glass
- Helps preserve the appearance of furniture and fabrics
- Has an abrasion resistant surface to maintain a good appearance longer.
- Easy to remove without adhesive residues