

3M™ Safety & Solar Film ULTRA Neutral S35

Description

3M™ Safety Solar Film Ultra Neutral S35 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 other safety films of the same thickness. Therefore the resistance of glass / film to penetration is significantly increased.

3M™ Safety Solar Film Ultra Neutral S35 significantly 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 and saves on energy costs.

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

Features (on 6 mm clear glass)

Total Solar Energy rejected:	56 %
G-value	0.44
Glare reduction:	60 %
UV rays blocked:	99 %

Structure of the film

Thickness:	0,125 mm/ 125 µm
Colour:	Neutral
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 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 Exterior	Visible Light Reflection Interior	Visible Light Transmission	U-value	G-value	TSER
Single Pane								
Clear	No Film	0.94	8 %	9 %	89%	1.03	0.82	18 %
	Ultra Neutral S35	0.51	20 %	18 %	35%	0.99	0.44	56 %
Tinted	No Film	0.72	6 %	6 %	53%	1.03	0.63	37 %
	Ultra Neutral S35	0.45	11%	12 %	21%	0.99	0.39	61 %
Double Pane								
Clear	No Film	0.80	14 %	75 %	79%	0.47	0.70	30 %
	Ultra Neutral S35	0.59	24 %	19 %	32%	0.99	0.51	49 %
Tinted	No Film	0.58	8 %	13 %	47%	0.47	0.51	49 %
	Ultra Neutral S35	0.45	12 %	19 %	19%	0.46	0.38	61 %

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





3M™ Safety & Solar Film

ULTRA Neutral S35

- **Reduces air conditioning costs.**
- **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 residue.**