3M ™ Sun Control Film Bronze 20 Exterior

Description

3M™ Sun Control Film Bronze 20 Exterior is designed for use on the exterior surface of windows. Unlike other sun control solutions, this film reflects the sun's rays while allowing optical clarity to be maintained. The even distribution of the sun's rays effectively reduces the effect of glare. The film also significantly reduces the amount of UVA and UVB rays which are the main cause of fading.

3M Sun Control Films significantly reduce the effect of the suns heat and create a balanced environment of the building. Especially in summer months they help to reduce the workload on air conditioning systems and save energy costs!

3M Sun Control Films – an elegant way to use light and heat. An additional benefit during daylight hours is the one way vision which can allow people to clearly see out while making it more difficult for unwanted prying eyes to see in.

3M™ Sun Control film Bronze 20 Exterior requires an edge sealing on all four sides.
A recommended edge sealer is **3M Marine 3200**.

Features (on 6 mm clear glass)

Total solar energy rejected:	78 %
G-value	0.22
Glare reduction:	74 %
UV rays blocked:	99 %

Film properties

Thickness:	0,050 mm/50 µm
Colour:	Bronze
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	Shading Coefficient	Visible Reflection Exterior	Visible Reflection Interior	Visible Light Transmission	Heat Gain Reduction	U-value	G-value	TSER
Single Pane									
Clear	No Film	0.94	8 %	9 %	89 %	NA	1.03	0.82	18 %
	Bronze 20 Ext.	**0.26**	**32 %**	**33 %**	**23 %**	**73%**	**1.02**	**0.22**	**78 %**
Tinted	No Film	0.72	13 %	9 %	53 %	NA	1.03	0.63	37 %
	Bronze 20 Ext.	**0.21**	**32 %**	**15 %**	**14 %**	**70%**	**1.02**	**0.19**	**81 %**
Double Pane									
Clear	No Film	0.80	15 %	15 %	79 %	NA	0.47	0.70	30 %
	Bronze 20 Ext.	**0.19**	**33 %**	**35 %**	**21 %**	**76%**	**0.47**	**0.17**	**83 %**
Tinted	No Film	0.58	8 %	13 %	47 %	NA	0.47	0.51	49 %
	Bronze 20 Ext.	**0.15**	**32 %**	**20 %**	**12 %**	**75%**	**0.47**	**0.13**	**87 %**

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
www.3M.com/windowfilms

Your local Window Film Dealer:

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3M ™ Sun Control Film

Bronze 20 Exterior

- Excellent solution to reduce solar heat gain keeping you cooler in the summer months.
- Reduces air conditioning costs.
- Reduces glare and eye discomfort.
- Abrasion resistant surface to maintain good appearance longer.
- Extends the life and vibrancy in furniture and carpet fabrics.
- Reduces the risk of injury from flying glass.

window films made by 3M

3M