

# 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 rays which are the main cause of fading.

**3M Sun Control Films** significantly reduce the effect of the sun's heat and create the balanced environment of the building. Especially in summer months they help to reduce the workload on air conditioning systems and can save on the cost of energy!

**3M Sun Control Films** – an elegant way to use light and heat. An additional benefit can be that during daylight hours, a one way vision can be created allowing 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 of window. Recommended Edge sealant is **3M Marine 3200**.

## Features (on 6 mm clear glass)

Total solar energy reduction:	77 %
G-value	0.23
Reduction of Glare:	74 %
Reduction of UV rays:	99 %

## Structure of the film

Thickness:	0,050 mm/50 µ
Colour:	Bronze
Material of the film:	Polyester
Adhesive:	Special Acrylic
Top coating:	Scratch resistant hard coat

## Installation

**3M Window films** are installed using water and a 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. Do not clean 3M films dry.

Glass type	Film Type	SC	VLR Ext. %	VLR Int. %	VLT %	Emissivity	u-value	g-value	TSER
<b>Single Pane</b>									
Clear	No Film	0.94	8 %	8 %	88 %	0.84	1.06	0.82	18 %
	<b>Bronze 20 Ext.</b>	<b>0.26</b>	<b>47 %</b>	<b>29 %</b>	<b>16 %</b>	<b>0.67</b>	<b>1.02</b>	<b>0.23</b>	<b>77 %</b>
Tinted	No Film	0.69	5 %	5 %	50 %	0.84	1.06	0.60	40 %
	<b>Bronze 20 Ext.</b>	<b>0.22</b>	<b>32 %</b>	<b>13 %</b>	<b>15 %</b>	<b>0.67</b>	<b>1.02</b>	<b>0.19</b>	<b>81 %</b>
<b>Double Pane</b>									
Clear	No Film	0.81	14 %	14 %	78 %	0.84	0.50	0.70	30 %
	<b>Bronze 20 Ext.</b>	<b>0.19</b>	<b>33 %</b>	<b>31 %</b>	<b>35 %</b>	<b>0.67</b>	<b>0.47</b>	<b>0.17</b>	<b>83 %</b>
Tinted	No Film	0.55	8 %	8 %	45 %	0.84	0.50	0.48	52 %
	<b>Bronze 20 Ext.</b>	<b>0.15</b>	<b>32 %</b>	<b>19 %</b>	<b>20 %</b>	<b>0.67</b>	<b>0.47</b>	<b>0.17</b>	<b>87 %</b>

### 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.

3

Your local Window Film Dealer:

3M a/s  
 Building & Commercial Services Division  
 Fabriksparken 15  
 2600 Glostrup  
 Tlf. 43480100  
 www.3Mvinduesfilm.dk  
 DS26/000003-1



## **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 discomfort.**
- **Helps preserve the appearance of furniture and fabrics.**
- **Has an abrasion resistant surface to maintain a good appearance for longer.**
- **Easy to remove without adhesive residues.**