

Solar Screen

# MASTER 80 XC

## Solar Control

## Polycarbonate Application - Exterior

### Description

The Master 80 XC self-adhesive reflective film has been specially designed to protect against the detrimental effects of solar exposure, limiting solar heat gain, solar glare and eliminating the effects of fading on polycarbonate and other synthetic materials.

Certified B Corporation

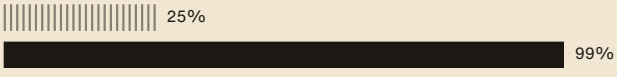
### Visible Light Transmission (%)



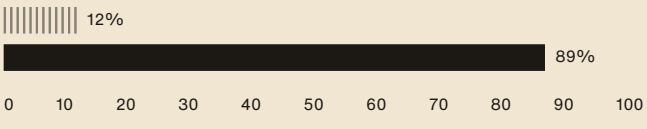

### Visible Light Reflection - External (%)




### UV Rejection (%)




### Total Solar Energy Rejected (%)



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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

**Installation Type**
Exterior

**Color From the Outside**
Silver

**Length**
30.5 m

**Product Carbon Footprint (LCA)**
1.23 kgCO2e/m²

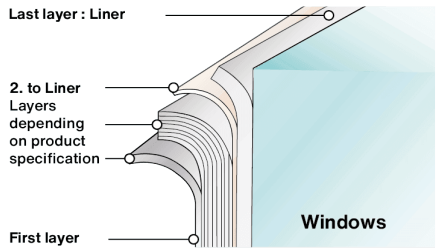
## Construction

1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
2 High optical quality polyester, with an IR-blocking metallic particle coating
3 Bonding adhesive
4 High optical quality polyester
5 Half permanent adhesive that will ease the removal of the film from the window
6 Protection PET release liner, disposable after installation

**Composition**
PET

**Thickness**
60 µm

## Details




## Energy and environmental benefits[01]

**Energy savings**
N/A

**Carbon footprint reduction**
N/A

**Financial savings**
N/A

Access our energy savings calculator

## Optical and solar properties

| | Single 3mm | | Double Low-E | |
|---|---|---|---|---|
| Pane type | No film | With Film | No film | With Film |
| UV Rejection (%) | 25 | 99 | 40 | N/A |
| **Visible Light Transmission (%)** | **91** | **16** | **82** | **N/A** |
| Visible Light Reflection - External (%) | 8 | 62 | 11 | N/A |
| Visible Light Reflection - Internal (%) | 8 | 60 | 12 | N/A |
| Solar Energy Reflection (%) | 5 | 67 | 28 | N/A |
| Solar Energy Absorption (%) | 8 | 20 | 12 | N/A |
| Solar Energy Transmission (%) | 87 | 13 | 60 | N/A |
| **Total Solar Energy Rejected (%)** | **12** | **89** | **35** | **N/A** |
| Glare Reduction (%) | - | 84 | - | N/A |
| Shading Coefficient | - | 0.2 | - | N/A |
| **g-value** | **0.88** | **0.18** | **0.65** | **N/A** |
| U-value (W/m².°C) | 5.8 | 5.1 | 1.1 | N/A |

## Application advice[02]

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

Use Slide On (600-FO2) or Film On (600-F0355) diluted at 2 cL/L of water for installation and cleaning. Do not clean for one month after installation or apply stickers/adhesives on the film.For external installations, apply silicone to the film perimeter to prevent oxidation. Please refer to the notice "New Warranty for External Films".

Access the installation and maintenance advice video

01 Values based on a study carried out on an air-conditioned building located in Luxembourg, with a film applied on a low-E double glazing, facing East. The heating months considered are from October to March, and the cooling months from April to September. We consider an electric heating system of the heat pump type, with a production efficiency of 3.5 and an electric cooling system with an efficiency of 3. For more information, visit our online tool.

02 Advice based on glazed surface area up to 2.5 m², please contact us for any confirmation or thermal shock analysis.
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