



## EXTERNAL LOW MIRROR & CLEAR SOLAR WINDOW FILMS – 2

**Opalux® exterior grade window films have been developed and manufactured to state of the art technology and used successfully over many decades. They are of weatherable construction having additional UV barriers to help protect the film from degrading through exposure to sunshine, and also having a strong waterproof adhesive.**

The Opalux® external low mirror and clear solar control films are used where a more neutral appearance is desired rather than the highly mirrored look of the reflective films. While the low mirrored films are still metallised, for good solar heat and glare rejection, they have a more subtle external appearance.

Opalux® exterior solar control films are often installed to the exterior face of the window glass to reject the heat of the sun before it penetrates and is absorbed by the glazing unit itself. They are therefore more efficient in their primary object of reducing the solar gain by preventing absorbed heat-of-the-sun being reradiated to the interior of the building, especially where you have extra thick glass or double or triple glazing.

Another reason for fixing to the exterior face of the glass is to reduce the risk of thermal fracture. This particularly applies to laminated, Georgian-wired and heavily tinted glass, and may also apply to double or triple glazing in certain circumstances. Your Opalux® Dealer should help you assess the risks and balance the probabilities.

Exterior fitting is frequently needed to obscure internally boarded up windows, spandrel panels etc where access from the inside is not possible or where patterned glass is rough side facing in.



**Accurate selection of window films requires specialist knowledge, and it is recommended that specifiers contact the company at the specification stage +44 (0)845 026 1125 or email [solutions@opaluxwindowfilms.com](mailto:solutions@opaluxwindowfilms.com)**

SOLAR CONTROL

## EXTERNAL LOW MIRROR & CLEAR SOLAR WINDOW FILMS – 2



### Sputtered Grey 20

PERFORMANCE DATA		SO-20SG-eSR
SOLAR ENERGY	Transmitted	23%
	Reflected	28%
	Absorbed	49%
VISIBLE LIGHT	Transmitted	22%
	Reflected (Interior)	32%
	Reflected (Exterior)	30%
UV Rejection		99%
Glare Reduction		75%
Shading Coefficient		0.37
Solar Heat Gain Coefficient (G-Value)		0.32
U-Value (W/m <sup>2</sup> K)		5.71
Total Solar Energy Rejected		68%
Product Warranty*		7 years vertical Up to 5 years sloping**

### Sputtered Grey 35

PERFORMANCE DATA		SO-35SG-eSR
SOLAR ENERGY	Transmitted	34%
	Reflected	17%
	Absorbed	49%
VISIBLE LIGHT	Transmitted	38%
	Reflected (Interior)	15%
	Reflected (Exterior)	17%
UV Rejection		99%
Glare Reduction		57%
Shading Coefficient		0.55
Solar Heat Gain Coefficient (G-Value)		0.48
U-Value (W/m <sup>2</sup> K)		5.71
Total Solar Energy Rejected		52%
Product Warranty*		7 years vertical Up to 5 years sloping**

### Bronze 20

PERFORMANCE DATA		SO-20SB-eSR
SOLAR ENERGY	Transmitted	14%
	Reflected	51%
	Absorbed	34%
VISIBLE LIGHT	Transmitted	21%
	Reflected (Interior)	42%
	Reflected (Exterior)	34%
UV Rejection		99%
Glare Reduction		76%
Shading Coefficient		0.29
Solar Heat Gain Coefficient (G-Value)		0.25
U-Value (W/m <sup>2</sup> K)		5.92
Total Solar Energy Rejected		75%
Product Warranty*		7 years vertical Up to 3 years sloping

### Bronze 35

PERFORMANCE DATA		SO-35SB-eSR
SOLAR ENERGY	Transmitted	24%
	Reflected	34%
	Absorbed	42%
VISIBLE LIGHT	Transmitted	34%
	Reflected (Interior)	25%
	Reflected (Exterior)	30%
UV Rejection		99%
Glare Reduction		61%
Shading Coefficient		0.41
Solar Heat Gain Coefficient (G-Value)		0.36
U-Value (W/m <sup>2</sup> K)		5.91
Total Solar Energy Rejected		64%
Product Warranty*		7 years vertical Up to 3 years sloping

### NR Grey 10

PERFORMANCE DATA		SO-10NRG-eSR
SOLAR ENERGY	Transmitted	53%
	Reflected	6%
	Absorbed	41%
VISIBLE LIGHT	Transmitted	8%
	Reflected (Interior)	5%
	Reflected (Exterior)	4%
UV Rejection		99%
Glare Reduction		91%
Shading Coefficient		0.75
Solar Heat Gain Coefficient (G-Value)		0.65
U-Value (W/m <sup>2</sup> K)		6.05
Total Solar Energy Rejected		35%
Product Warranty*		7 years vertical Up to 4 years sloping

### Clear Heat Control

PERFORMANCE DATA		SO-70IR-eSR
SOLAR ENERGY	Transmitted	39%
	Reflected	9%
	Absorbed	52%
VISIBLE LIGHT	Transmitted	75%
	Reflected (Interior)	9%
	Reflected (Exterior)	9%
UV Rejection		99%
Glare Reduction		15%
Shading Coefficient		0.61
Solar Heat Gain Coefficient (G-Value)		0.53
U-Value (W/m <sup>2</sup> K)		5.92
Total Solar Energy Rejected		47%
Product Warranty*		5 years vertical Up to 2 years sloping

\*Some warranty periods are reduced or negated as the angle of the sloped glazing lowers towards the horizontal-orientation.  
\*\*No warranty is offered for horizontal glazing.