

# SAFETY & SECURITY FILM

## 175 Micron – Clear Exterior

### SA-175CL-eSR



Opalux® safety and security window films are designed to make glass safer, both by strengthening it against breakage and helping hold dangerous shards of shattered glass in situations where breakage does occur.

Tested and certified to EN 12600 Class 1B1, Opalux® 175-micron clear safety & security film is used to help comply with current government guidelines for bomb blast protection. Opalux® safety and security window films are suitable for use in many applications in the workplace and home. The external 175-micron film is typically used where the outer panel of a double glazed unit needs upgrading or where access to the inner panel is not possible. Other benefits can include improved security by creating a deterrent to “smash-and-grab” crime, and providing protection against the vandalism of glass through graffiti such as the etching or scratching of glass.

### FEATURES

- High optical clarity
- Quick, retro-fit installation
- Exterior grade with a scratch-resistant coating
- Screening of harmful UV rays

### BENEFITS

- Clear, non-tinted appearance on glass
- Can be used where costly and disruptive large-scale replacement of existing glazing is not a viable option
- Suitable for most non-abrasive window-cleaning methods
- Reduced fading of interior furnishings

PERFORMANCE DATA		SA-175CL-eSR
SOLAR ENERGY	Transmitted	76%
	Reflected	10%
	Absorbed	14%
VISIBLE LIGHT	Transmitted	87%
	Reflected (Interior)	10%
	Reflected (Exterior)	10%
UV Rejection		99%
Glare Reduction		1%
Shading Coefficient		0.93
Solar Heat Gain Coefficient (G-Value)		0.81
U-Value (W/m²K)		5.92
Total Solar Energy Rejected		19%
Product Warranty*		5 years vertical Up to 3 years sloping

\*Some warranty periods are reduced or negated as the angle of the sloped glazing lowers towards the horizontal-orientation.

### PHYSICAL PROPERTIES

Description	Clear
Film Thickness	175-Microns (7-thou)
Structure	Single Ply Laminate
Tensile Strength	25,000 PSI
Break Strength	175 Pounds per Inch (width)
Adhesive Type	Acrylic Pressure Sensitive
Peel Strength	5 to 6 Pounds per Inch

### NOTES

Test results are produced from film applied to 3mm clear single glass. Performance data is subject to change without prior notice. Accurate selection of window film requires specialist knowledge, and it is recommended that specifiers contact the company at the specification stage. Please refer to the Opalux Product Warranty Form for the full terms and conditions of the Opalux limited warranty. It is the users' responsibility to ensure the product is suitable for the intended use. The seller shall not be liable for any direct, indirect or consequential loss or damage howsoever arising.

### SPECIFICATION

The safety and security window film is to be Opalux® SA-175CL-eSR, as manufactured by Opalux® ([www.opaluxwindowfilms.com](http://www.opaluxwindowfilms.com)). The film is to be installed to the exterior surface of the glass, and the unique product roll numbers used are to be registered in accordance with the manufacturer's warranty procedure. Exterior grade films must be correctly silicone edge sealed.