

# Opalux® TRADE Safety & Security Film

100-micron - Clear - Internal  
Code: TSA-100CL-ISR



**Opalux® TRADE 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 2B2, Opalux® TRADE 100-micron clear safety and security film is used as a minimum specification for safety film and can be used by organisations to address Regulation 14 of the Workplace (Health, Safety and Welfare) Regulations 1992 by upgrading low-level glazing where necessary for reasons of health and safety.

Opalux® TRADE safety and security window films are suitable for use in many applications in the workplace and home.

Other benefits can include improved security by creating a deterrent to "smash-and-grab" and forced entry crime, and providing protection against the vandalism of glass through graffiti such as the etching or scratching of glass.

Features	Benefits
High optical clarity	Clear, non-tinted appearance on glass
Quick, retro-fit installation	Can be used where costly and disruptive large-scale replacement of existing glazing is not a viable option
Scratch-resistant	Suitable for most non-abrasive window-cleaning methods
Screening of harmful UV rays	Reduced fading of interior furnishings

Performance Data	
<b>Total Solar Energy</b>	
Transmitted	81%
Reflected	7%
Absorbed	12%
<b>Visible Light</b>	
Transmitted	86%
Reflected	8%
Ultra-Violet Rejected	<98%
Shading Coefficient	0.94
Total Solar Energy Rejected	19%

Physical Properties	
Description	Clear
Film Thickness	100-microns (4-thou)
Structure	Single Ply
Tensile Strength	28,000 PSI
Break Strength	110 Pounds per Inch (width)
Adhesive Type	Acrylic Pressure Sensitive
Peel Strength	6 to 7 Pounds per Inch
Product Warranty	10 years

#### Specification:

The safety & security window film is to be Opalux® TSA-100CL-ISR, as manufactured by Opalux® (www.opalux.co.uk). The film is to be installed to the interior surface of the glass, and the unique product roll numbers used are to be registered in accordance with the manufacturer's warranty procedure.

#### Notes:

Test results are produced from film applied to clear glass. Performance data is subject to change without prior notice. Accurate selection of window films requires specialist knowledge, and it is recommended that specifiers contact the company at the specification stage. Please refer to the Opalux® TRADE Product Warranty Form for the full terms and conditions of the Opalux® TRADE 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 or consequential loss howsoever arising.