



SAFETY & SECURITY FILM

100 Micron - Clear

SA-100CL-iSR

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 2B2, Opalux® 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® 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

- High optical clarity
- Quick, retro-fit installation
- Scratch-resistant
- 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-100CL-iSR
SOLAR ENERGY	Transmitted	78%
	Reflected	9%
	Absorbed	13%
VISIBLE LIGHT	Transmitted	88%
	Reflected (Interior)	10%
	Reflected (Exterior)	10%
UV Rejection		98%
Glare Reduction		0%
Shading Coefficient		0.93
Solar Heat Gain Coefficient (G-Value)		0.81
U-Value (W/m²K)		6.08
Total Solar Energy Rejected		19%
Product Warranty*		10 years

PHYSICAL PROPERTIES	
Description	Clear
Film Thickness	100-Microns (4-thou)
Structure	Single Ply
Tensile Strength	28,500 PSI
Break Strength	110 Pounds per Inch (width)
Adhesive Type	Acrylic Pressure Sensitive
Peel Strength	6 to 7 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. 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-100CL-iSR, as manufactured by Opalux® (www.opaluxwindowfilms.com). 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.

An exterior grade is available.
Refer to code: SA100CL-eSR.



SAFETY & SECURITY FILM

175 Micron – Clear

SA-175CL-iSR

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. 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
- Scratch-resistant
- 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-iSR

SOLAR ENERGY	Transmitted	77%
	Reflected	9%
	Absorbed	14%
VISIBLE LIGHT	Transmitted	87%
	Reflected (Interior)	11%
	Reflected (Exterior)	11%
UV Rejection		98%
Glare Reduction		1%
Shading Coefficient		0.92
Solar Heat Gain Coefficient (G-Value)		0.80
U-Value (W/m²K)		6.07
Total Solar Energy Rejected		20%
Product Warranty*		10 years

PHYSICAL PROPERTIES

Description	Clear
Film Thickness	175-Microns (7-thou)
Structure	Single Ply
Tensile Strength	28,500 PSI
Break Strength	178 Pounds per Inch (width)
Adhesive Type	Acrylic Pressure Sensitive
Peel Strength	6 to 7 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. 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-iSR, as manufactured by Opalux® (www.opaluxwindowfilms.com). 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.

An exterior grade is available.
Refer to code: SA-175CL-eSR.



SAFETY & SECURITY FILM

200 Micron – Clear

SA-200CL-iSR

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® 200-micron clear safety & security film is used to help comply with current government guidelines for bomb blast protection. Multi-laminate safety & security film is now widely used by government agencies as well as many commercial organisations concerned to address the real corporate risk of bomb-blast, or industrial explosion at or near their premises. Opalux® 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” crime, and providing protection against the vandalism of glass through graffiti such as the etching or scratching of glass. Also, when used in conjunction with edge-retention profiles enhanced security and blast protection can be achieved.

FEATURES

- High optical clarity
- Quick, retro-fit installation
- Scratch-resistant
- 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

PERFORMANCE DATA		SA-200CL-iSR
SOLAR ENERGY	Transmitted	77%
	Reflected	10%
	Absorbed	13%
VISIBLE LIGHT	Transmitted	87%
	Reflected (Interior)	10%
	Reflected (Exterior)	10%
UV Rejection		98%
Glare Reduction		1%
Shading Coefficient		0.92
Solar Heat Gain Coefficient (G-Value)		0.80
U-Value (W/m²K)		6.08
Total Solar Energy Rejected		20%
Product Warranty		10 years

PHYSICAL PROPERTIES

Description	Clear
Film Thickness	200-Microns (8-thou)
Structure	Multi Laminate
Tensile Strength	28,500 PSI
Break Strength	220 Pounds per Inch (width)
Adhesive Type	Acrylic Pressure Sensitive
Peel Strength	6 to 7 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. 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-200CL-iSR, as manufactured by Opalux® (www.opaluxwindowfilms.com). 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.



SAFETY & SECURITY FILM

300 Micron – Clear

SA-300CL-iSR

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.

Thicker multi-laminate safety & security film is used by government agencies as well as many commercial organisations concerned to address the real corporate risk of bomb blast, or industrial explosion at or near their premises where a thicker film is deemed appropriate for higher risk areas. This film is also ideal for use as part of an anti-intruder scheme. Opalux® 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” crime, and providing protection against the vandalism of glass through graffiti such as the etching or scratching of glass. Also, when used in conjunction with edge-retention profiles enhanced security and blast protection can be achieved.

FEATURES

- High optical clarity
- Quick, retro-fit installation
- Scratch-resistant
- 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

PERFORMANCE DATA		SA-300CL-iSR
SOLAR ENERGY	Transmitted	75%
	Reflected	11%
	Absorbed	14%
VISIBLE LIGHT	Transmitted	86%
	Reflected (Interior)	10%
	Reflected (Exterior)	10%
UV Rejection		98%
Glare Reduction		2%
Shading Coefficient		0.89
Solar Heat Gain Coefficient (G-Value)		0.77
U-Value (W/m²K)		6.07
Total Solar Energy Rejected		23%
Product Warranty		10 years

PHYSICAL PROPERTIES

Description	Clear
Film Thickness	300-Microns (12-thou)
Structure	Multi Laminate
Tensile Strength	28,500 PSI
Break Strength	325 Pounds per Inch (width)
Adhesive Type	Acrylic Pressure Sensitive
Peel Strength	6 to 7 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. 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-300CL-iSR, as manufactured by Opalux® (www.opaluxwindowfilms.com). 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.

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	
Total Solar Energy	
Transmitted	81%
Reflected	7%
Absorbed	12%
Visible Light	
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.