

A DURABLE AND  
FLEXIBLE CHOICE



# Sentinel SUNFLEX WINDOW FILM

## A new generation of external solar films unlocking fresh possibilities

SENTINEL SUNFLEX is the latest innovation in the SENTINEL family: a high-performance, weather-resistant exterior solar control film designed with flexibility at its core. Unlike traditional rigid exterior films, SUNFLEX adapts effortlessly to a wide variety of surfaces and shapes, opening the door to applications that were previously difficult or impossible.

At the heart of SENTINEL SUNFLEX is an optically clear, ultra-low-distortion TPU layer infused with advanced solar-control components. This unique construction delivers exceptional solar performance while maintaining a perfectly uniform, crystal-clear view without haze or distortion. Unlike many TPU-based solar films, SUNFLEX integrates its solar performance directly into the TPU—

not the adhesive—resulting in superior durability, long-term stability, and consistent performance over time.

SENTINEL SUNFLEX also features a specially engineered adhesive system that ensures excellent compatibility with a wide range of substrates, particularly polycarbonate and PMMA surfaces where traditional films often struggle. As its name suggests, SUNFLEX is highly flexible—and even slightly stretchable—allowing it to conform smoothly to curved or complex geometries.

With its combination of flexibility, clarity, and long-lasting solar protection, SENTINEL SUNFLEX sets a new benchmark for exterior film technology and expands what's possible in both architectural and specialty applications.

### CONSERVATORIES



Roofs of conservatories

### INDUSTRIAL BUILDINGS



Industrial skylights

### ROOFLIGHTS



Polycarbonate glazing,  
PMMA glazing

### SENTINEL SUNFLEX is available in 3 performance levels, allowing you to choose the perfect balance between privacy, clarity, and solar control

- 1- A high-performance, weather-resistant exterior solar control film designed with flexibility at its core. ✓
- 2- SUNFLEX adapts effortlessly to a wide variety of surfaces and shapes, that were previously difficult. ✓
- 3- SUNFLEX is an optically clear, ultra-low-distortion TPU layer infused with advanced solar-control components. ✓
- 4- Delivers exceptional solar performance while maintaining a perfectly uniform, crystal-clear view without haze or distortion. ✓
- 5- Up to 8 year product warranty on vertical surfaces.\* ✓



- 6- Available in 3 performance levels, allowing you to choose the perfect balance between privacy, clarity, and solar control. ✓
- 7- Specially engineered adhesive system that ensures excellent compatibility with a wide range of substrates. ✓
- 8- SUNFLEX is highly flexible — and even slightly stretchable — allowing it to conform smoothly to curved or complex geometries. ✓
- 9- SUNFLEX also acts as a durable surface protection layer, especially on materials prone to scratching. ✓

\*For details see the Solar Gard SWT&C on [www.solargard.eu](http://www.solargard.eu).

A flexible solution offering privacy, comfort and surface protection!



# Sentinel SUNFLEX

## SKYLIGHTS - POLYCARBONATE GLAZING - PMMA GLAZING - CONSERVATORIES ROOFS

SENTINEL SUNFLEX is available in three performance levels, allowing you to choose the perfect balance between privacy, clarity, and solar control:

- 20% Visible Light Transmission – Ideal for maximum privacy and the strongest solar protection.
- 40% Visible Light Transmission – A balanced, versatile option offering both comfort and visibility.
- 70% Visible Light Transmission – Perfect when maintaining clear outward and inward views is essential, while still reducing solar heat gain.

All versions deliver over 99% UV protection, helping safeguard occupants and preventing interior fading and discoloration.

SENTINEL SUNFLEX is backed by a robust warranty:

- 8-year limited warranty for vertical (85°- 90°) building applications (no edge sealing required but is advised to prevent long-term lifting).
- 5-year limited warranty for sloped installations < 85° (edge sealing recommended to prevent long-term lifting).

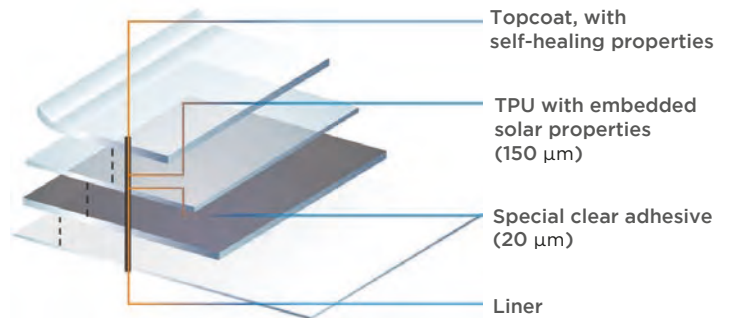
Full warranty details are available at [www.solargard.eu](http://www.solargard.eu).

Beyond privacy and summer comfort, SENTINEL SUNFLEX also acts as a durable surface protection layer, especially on materials prone to scratching—such as windows on recreational vehicles, mobile homes, and caravans. It also provides an excellent alternative to traditional window films for the rear windows of coupés and sedans, where heavy thermoforming and complex installation are typically required.

## TECHNICAL DATA<sup>1</sup>

PERFORMANCE RESULTS	Sentinel™ Sunflex 20	Sentinel™ Sunflex 40	Sentinel™ Sunflex 70
<b>VISIBLE LIGHT</b>			
Transmittance %	15	44	69
Reflectance exterior %	5	6	7
Reflectance interior %	5	6	7
<b>SOLAR ENERGY</b>			
Total solar energy rejection (TSER) %	63	54	46
Transmittance %	12	25	36
Absorbance %	83	70	59
Reflectance %	4	5	5
Shading coefficient	0.43	0.53	0.62
Solar heat gain coefficient (G-value)	0.37	0.46	0.54
Emissivity	1.0	0.9	0.9
Solar Selectivity index-luminous efficacy (VLT/SC)	0.4	0.8	1.1
Light to solar heat gain ratio (VLT/SHGC)	0.4	0.9	1.3
<b>IR</b>			
SIRR %	92	90	90
<b>UV</b>			
Ultraviolet light blocked @ 300 to 380 nm %	>99	>99	>99

## HOW IT'S BUILT



### Product Code

Sentinel Sunflex 20	SF7STS20-6050
Sentinel Sunflex 40	SF7STS40-6050
Sentinel Sunflex 70	SF7STS70-6050

Mechanical and Physical Properties	Sentinel Sunflex
Tensile strength	150 N/cm2
Elongation at Break	<200%
Peel strength	at 30 min: 1500 g/25 mm at 24 hrs: 1800 g/25 mm
Gloss (ASTM 523)	110 GU
Water Contact Angle (ASTM D7334)	100°
Fire Reaction	EN 13823: B-s1, d0 NF P92-501: M1 EN 13501: Pending EN 45545: R1- HL1, H2, HL3
<b>Physical Properties Nominal</b>	
Thickness without liner (mil)	8 mil
Roll dimensions	60"x50 lin ft

A slight haziness or foggy appearance may occasionally be visible immediately after installation. This is simply due to a small amount of moisture trapped beneath the film during the application process. It is completely normal and nothing to worry about. The film will clear up on its own within a few days, depending on weather conditions.

**Regular Cleaning** To maintain the film's appearance and performance, regular and gentle cleaning is essential:

- Always **rinse the surface thoroughly with clean water** before applying any cleaning solution. This helps prevent scratches caused by dust or larger dirt particles.
- Clean the film using a **mild soap-and-water solution**.
- **Avoid harsh or aggressive products such as ammonia-based cleaners, strong chemicals, or abrasive pads**, as these may damage the film.
- Use a **soft microfiber cloth or sponge** to gently wipe the surface.
- **Do not use abrasive tools** such as rough towels, brushes, or scrapers.

<sup>1</sup> Performance values are calculated according to the EN 410 methodology on 3 mm Planiclear glass and may vary within industry standard tolerances. They are provided for guidance only and intended as estimates. These data are supplied for informational purposes and may exhibit normal variations related to the manufacturing process.  
\*For details see the Solar Gard SWF&C on [www.solargard.eu](http://www.solargard.eu).