



SUNLITE®

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Detailed description

SUNLITE® has a cellular polycarbonate structure that yields a lightweight sheet with high impact strength and superior thermal insulation. High light transmission makes SUNLITE® ideal for varied roofing, wall cladding and glazing applications. The SUNLITE® product range includes heat-blocking SolarSmart™ sheets that reduce heat build-up and anti-condensation treatment for greenhouses and garden centres. With 99.9% UV blocking properties it is the ideal solution for providing UV shading for public areas.

Features/ Benefits:

- Blocks virtually all UV radiation.
- Easy to handle and install.
- Excellent structural durability.
- Extremely Lightweight yet impact resistant.
- High fire ratings.
- High light transmission.
- High thermal insulation.
- Weather and UV resistant.

Applications:

- Architectural roofing and glazing.
- Conservatory roofing.
- Covered walkways.
- Decorative partitions.
- Greenhouse and garden centre roofing.
- Illuminated signage and displays.
- Skylights and sidelights.

Product guidance - As Standard

Technical properties:

- Density: 1.2 g/cm³.
- Heat deflection temperature: 135°C.
- Coefficient of linear thermal expansion: 6.5 x 10E-5 mm/°C.
- Practical thermal expansion/contraction: 3 mm/m.
- Impact strength: 40–400 J.
- Elongation at break (10 mm/min): >90%.
- Fire resistance (to BS EN 13501): B, s1, d0.
- Service temperature: -50 to +100°C long term, -50 to +120 short term.



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- Tensile strength at yield (10 mm/min): 62 MPa.

Options

Colour:

Availability is dependent on type and thickness, consult manufacturer's literature for more information.

Product specification

Manufacturer

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- Product reference**
- SUNLITE® - Standard sheet with UV protection on one side.
 - SUNLITE® Breeze - Part of the SolarSmart™ family. Breeze offers unsurpassed performance providing the highest clarity and near infer-red selectivity.
 - SUNLITE® CL - SolarSmart™ heat blocking sheet for architectural applications.
 - SUNLITE® ML - Multi-layered colour combinations for special designs.
 - SUNLITE® Plus - With anti-condensation, for greenhouses.
 - SUNLITE® SLT - SolarSmart™ heat blocking and anti-condensation sheet for garden centres.
 - SUNLITE® Smart - SolarSmart™ transparent sheet with advanced heat-blocking properties. Incorporates near infer-red selectivity providing 'cool light'.
 - SUNLITE® Solar Control - SolarSmart™ metallic reflective heat blocking sheet.
 - SUNLITE® UV2 - With integrated UV protective layer on both sides.

Size As drawing

Type Twin Wall - Available in 4, 4.5, 6, 8 and 10 mm thicknesses.
Triple Wall - Available in 8, 10 and 16 mm thicknesses.
V-Structure - Available in 20, 25, 32, 35 and 40 mm thicknesses.
X-Lite - Available in 16, 25, 32, 35 and 40



mm thicknesses.

Thickness

Width

Colour

Not applicable - For SUNLITE® CL and SLT.
Blue - Standard colours.
Bluish Breeze - Solar Smart™.
Bronze - Standard colours.
Clear - Standard colours.
Green - Standard colours.
White Diffuser - Standard colours.
White Opal - Standard colours.
Bronze/Opal - Multilayered colours for SUNLITE® ML.
Solar Guard (Solar Control/Opal) - Multilayered colours for SUNLITE® ML.
Smart Green - SolarSmart™.
Solar Control - SolarSmart™.
Solar Ice - SolarSmart™.

Connecting profiles