



SUNLITE® Eclipse

Reflective Opaque Multiwall Polycarbonate Sheet for Light Deprivation Applications



Overview

Engineered for complete light deprivation, with a highly reflective, white outer skin and a black core, SUNLITE® Eclipse ensures 0% light transmission, yet allows for high reflectance for interior lighting. This lightweight, easy-to-install, insulated panel can be used in a wide range of climates. Its multiwall design helps conserve energy and maintain consistent temperatures inside your structure.

SUNLITE® Eclipse is a durable solution for cannabis greenhouse, processing and storage areas and more.

Main Benefits

- Allows complete light deprivation
- White, reflective interior for optimized photosynthesis efficiency.
- Excellent thermal insulation
- Impact resistance.
- Light weight – Easy to handle
- Weather and UV resistant
- Rigid, yet capable of cold forming to an arch
- Wide service temperature range (-40°C to 120°C)
- 10 Years warranty for breakage and for light deprivation.

Typical Applications

SIDES & WALLS FOR:

- Commercial greenhouse
- Aquaculture applications
- Packing and holding areas

NOTE:

For roof applications, consider :

- **SUNTUF® Plus** Condensation-control corrugated greenhouse roofing systems.
- **SUNLITE® Plus** 8mm twin or triple-wall polycarbonate with built-in condensation control

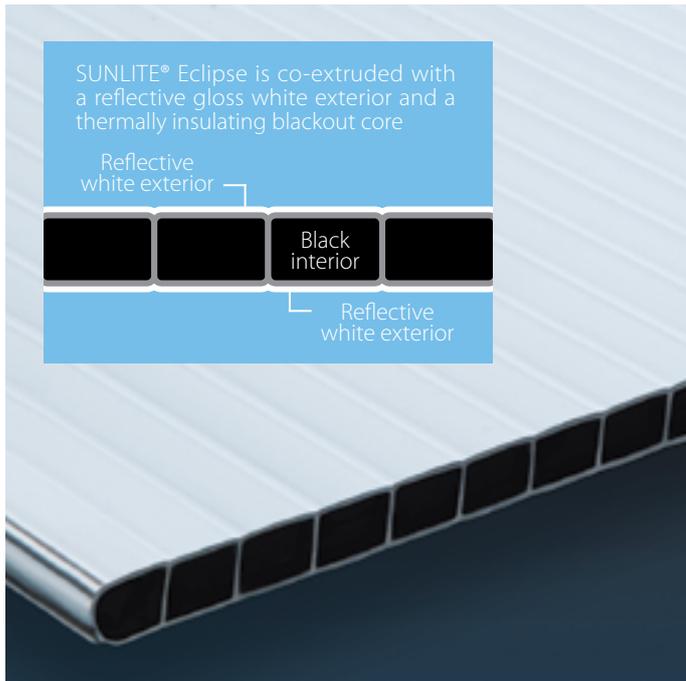
These options offer excellent light transmission and light diffusion, while providing up to 60% more energy efficiency than glass or greenhouse films.

Security, safety & privacy

Virtually unbreakable, suitable for extreme load bearing and impact resistance, our polycarbonate solutions provides the highest weather resistance and crop protection available. You will not need to worry about storms, nor for visibility from outside the structure.

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An Opaque Panel with Excellent Reflective Qualities

The reflective surface maximizes available natural light from your greenhouse roofing and from your artificial lighting system. The co-extruded black interior provides absolute privacy, 0% light transmission and high thermal insulation. In order to preserve this opacity, it is recommended to use metal profiles to join the panels.

Standard Dimensions

SUNLITE® Eclipse is available in 2100 mm widths. Special dimensions are available upon request with minimum order requirements.

Flammability

SUNLITE® Eclipse complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

Method	Classification*
BS 476/7	Class 1
ASTM D-635	CC-1 (SUNLITE® FR)
EN 13501	B, s1, d0
ASTM E-84	Class A

* For more detailed information please contact your Palram distributor.

Product Availability

	Thickness (mm)	U Value (W/m ² K)	Solar Reflectance
Twin wall	8	3.30	92%
Twin wall	10	2.90	92%
Triple wall	10	2.70	92%

* Other specifications are available based on minimum order quantity

Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1.2
Heat deflection temperature (HDT)	D-648	Load: 1.82 MP	°C	135
Service Temperature - Short term			°C	-50 to +120
Service Temperature - Long term			°C	-50 to +100
Coefficient of linear thermal expansion	D-696		mm/mm °C	6.5x10 ⁻⁵
Tensile strength at yield	D-638	10 mm/min	MPa	62
Elongation at break	D-638	10 mm/min	%	>90
Impact falling dart	ISO 6603/1		J	40-400
Practical thermal expansion/contraction			mm/m	3

* ASTM except where noted otherwise.

Installation

Various installation profiles and other accessories available. For information regarding handling, installation and accessories please contact your local Palram representative. General installation instructions are available on Palram's global website, www.palram.com

Warranty

SUNLITE® Eclipse features a 10 year warranty against gain of light transmission, and damage due to hail impact.



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