



SUNLITE® Plus

Condensation Control Multiwall Polycarbonate sheet



AGRICULTURE



CONSTRUCTION



Overview

SUNLITE® Plus combines high light transmission, excellent weather resistance and a unique Condensation & Drip Control feature beneficial for healthy plant growth in greenhouses and nurseries or for humid public areas such as swimming pools and spa facilities.

The tough multiwall polycarbonate structure and low weight reduce the cost of the supporting structure. Shatterproof polycarbonate coupled with an integrated UV resistant coextruded layer yield long service life, backed up by a 10 year limited warranty.

SUNLITE® Plus provides an optimal cultivation environment for agricultural greenhouses. From 6mm twin-wall to 16mm 7-wall sheet structures, SUNLITE Plus is available in a variety of configurations that can withstand the most extreme climates, providing energy efficiency for horticultural applications.

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Main Benefits

- Built-in condensation control
- Reduces harmful effects of condensation and dripping
- Greater light transmission during low light periods and seasons
- Transparent: Up to 80% light transmission
- UV Protection: Co-extruded UV protection, single or both sides
- Blocks up to 99.9% harmful UV radiation
- Weather & UV Resistant
- High Thermal Insulation reduces sun generated heat while transmitting valuable PAR light for plant growth – Energetic Efficiency
- Impact resistant: Virtually unbreakable & rigid
- Lightweight
- Easy to work with and install. Can be Cold formed into arches
- Wide service temperature range

Typical Applications

- Commercial Greenhouses
- Gardening Centers
- Swimming pools & spa facilities
- Packing and holding areas
- Skylights and Sidelights
- Covered walkways
- Industrial roofing and glazing

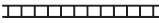





Product Availability*

| | |
|---------------|--|
| Colors | Clear, White Opal, Solar Control*, Solar Ice* |
| UV Protection | SUNLITE Plus: UV protection on one side SUNLITE Plus UV2: UV protection on both sides |
| Width | 980, 1050, 1220, 1250, 1830, 2100 mm |
| Length | 2000 - 12000 mm |
| Structures | See table below |

*Other specifications are available subject to a minimum order quantity.
Other available structures and thicknesses are listed in the SUNLITE leaflet.

Structures

| Structures | Light Transmission (Clear) | U Value (W/m ² K) | Drawing |
|------------------|----------------------------|------------------------------|---|
| Twin Wall 6mm | 80% | 3.5 |  |
| Twin Wall 8mm | 80% | 3.3 | |
| Twin Wall 10mm | 79% | 3.0 | |
| Triple Wall 8mm | 77% | 3.0 |  |
| Triple Wall 10mm | 77% | 2.7 | |
| Triple Wall 16mm | 76% | 2.3 |  |
| 7 Wall 10mm | 64% | 2.3 | |
| 7 Wall 16mm | 64% | 1.75 | |
| 7 Wall 20mm | 62% | 1.6 | |
| 7 Wall 25mm | 60% | 1.45 |  |

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

Typical Physical Properties

| Property | Method | Condition | Units | Value |
|---|------------|---------------|-------------------|-------------|
| Density | D-1505 | | 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/m °C | 0.065 |
| Tensile strength at yield | D-638 | 10 mm/min | MPa | 62 |
| Elongation at break | D-638 | 10 mm/min | % | >80 |
| Impact falling dart | ISO 6603/1 | | J | 40-400 |
| Thermal expansion/contraction rate | | | mm/m | 3 |

*ASTM except where noted otherwise.

Flammability

SUNLITE Plus 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* |
|------------|--------------------|
| EN 13501 | B, s1, d0 |
| BS 476/7 | Class 1 |
| DIN 4102 | B-1 |
| NSP 92501 | M-1, M-2 |
| ASTM D-635 | CC-1 (SUNLITE® SL) |
| ASTM E-84 | Class A |

* For more detailed information please contact your Palram distributor.



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