



SUNLITE® Plus

Condensation Control Multiwall Polycarbonate sheet



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

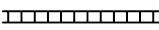
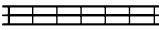




Product Availability*

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 sheets are self-extinguishing and comply with the most demanding international fire resistance standards defined in the field of plastics, as indicated by representative results in the attached table.

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

* Classifications depend on sheet type and thickness. For more information please refer to your SUNLITE distributor.



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