



Cannabis Greenhouse Solutions



All your glazing needs, under one roof



www.palram.com



Palram's Cannabis Greenhouse Solutions



Main Benefits:


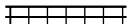
- SECURITY
- LIGHT DIFFUSION
- HIGH LIGHT TRANSMISSION UP TO 90%
- UV PROTECTION
- BUILT IN CONDENSATION CONTROL
- WIDE SERVICE TEMPERATURE RANG
- A COMPLETE SOLUTION - All your glazing needs under one roof



SUNLITE Plus built-in condensation control glazing system for commercial greenhouse

Thermal Properties

SUNLITE Plus is available in various configurations. Lightweight and easy to install, our insulated panel accommodates a wide range of temperatures.

Thermal and Optical properties					
Structures	Thickness	U Value (W/m ² K)	R (m ² K/W)	Light Transmission	Drawing
Twin wall R	8mm	3.3	0.303	80%	
Twin wall R	10mm	3.0	0.333	79%	
Triple wall RS	8mm	3.0	0.333	77%	
Triple wall RS	10mm	2.7	0.37	77%	
Triple wall T&RS	16mm	2.3	0.434	76%	

Light Deprivation

SUNLITE Opaque multiwall opaque polycarbonate panels for light deprivation applications

Engineered for complete light deprivation, with a highly reflective, white outer skin and a black core, SUNLITE Opaque ensures 0% light transmission, yet allows for high reflectance for interior lighting. Its multiwall design offers insulation to help maintain consistent temperatures inside your structure. SUNLITE Opaque is a durable solution for cannabis greenhouse, processing and storage areas.



Light Transmittance

SUNLITE Plus provides up to 80% light transmittance with high levels of light diffusion. Its excellent thermal insulation properties are crucial in cold climates.



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.

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.





SUNTUF Plus corrugated polycarbonate condensation control roofing system for commercial greenhouses.

Light Transmittance


SUNTUF Plus corrugated polycarbonate condensation control roofing system for commercial greenhouses.

SUNTUF Plus provides 90% light transmission with high levels of light diffusion, and encourages consistent growth with optimal light distribution.



Diffuser

Combines uniform light spread with high light transmission.
85% light transmission.
100% Diffusion.

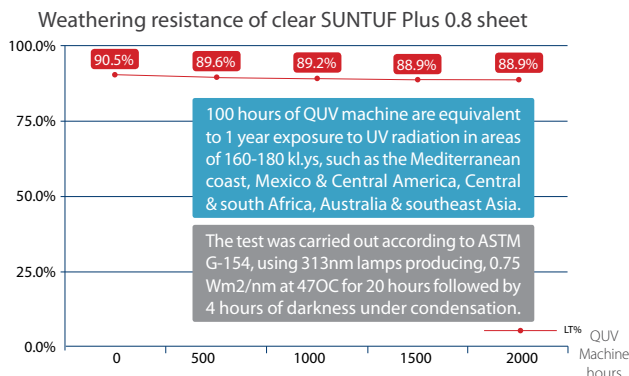


Embossed

Offers high light transmission and good diffusion for excellent flexibility.
90% light transmission.
20% Diffusion.

SUNTUF Plus UV resistance

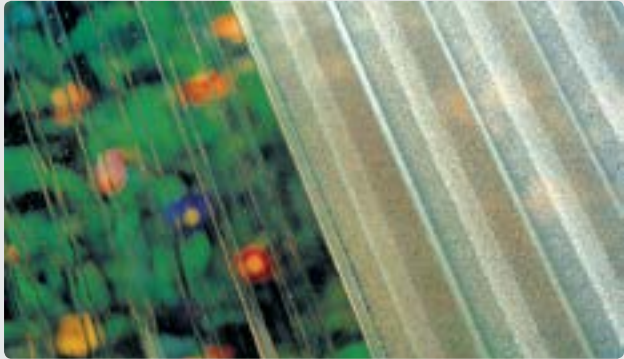
SUNTUF Plus maintains its high optical properties over time. A protective layer prevents UV related degradation of the material and makes SUNTUF Plus an ideal greenhouse cover.



Built-In Condensation Control

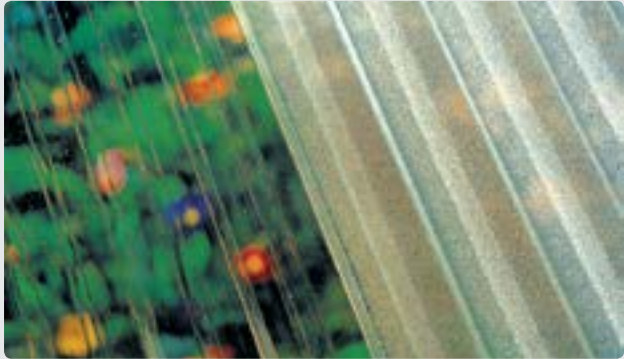
SUNTUF® Plus
Maintains clarity
and light transmission

↓



Standard Sheet
Covered with
condensation drip


↓



Hemispheric Light Transmittance

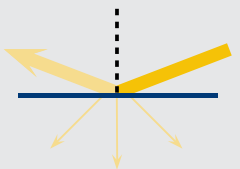
At N45°-N55° latitude, during the 5 critical months between November and March, the sun shines most of the day at a 15°-25° angle with the horizon. SUNTUF Plus refracts light at low angles of incidence, reduces reflection, and facilitates more light penetration into the greenhouse than any other material.

Corrugated Sheet
Low Sun Angle



High Light Transmission

Flat Sheet
Low Sun Angle



Low Light Transmission

* Available in other profiles

All products are warranted for 10 years



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