











CONSTRUCTION DIY SIGN & DISPLAY



Overview

SUNLITE's cellular polycarbonate structure yields a lightweight sheet with high impact strength and superior thermal insulation. High light transmission makes SUNLITE ideal for varied roofing, wall cladding, and plazing applications.

SUNLITE has a wide product range from anti-condensation treatment for greenhouses and garder centers to SolarSmart™ sheets that create cool climatic conditions.

Interior designers and advertiser take advantage of SUNLITE's specia appearance and add a unique touch to their designs.

Main Benefits

- High thermal insulation
- Lightweight and impact resistant
- High light transmission
- Excellent structural durability
- Weather and UV resistance
- Blocks virtually all UV radiation
- Easy to handle and install
- High fire performance rating

Typical Applications

- Architectural roofing and glazing
- Skylights and sidelights
- Conservatories
- Covered walkways
- Displays, signage and decorations
- Industrial roofing and glazing
- Residential roofing and glazing
- Covered swimming pools
- Agricultural greenhouses

SUNLITE® Product Range

	Product	Description							
	SUNLITE®	Standard sheet with UV protection on one side							
	SUNLITE® UV2	UV protection on both sides							
	SUNLITE® ML	Multi-layered color combinations for special designs							
	SUNLITE® Plus	With anti-condensation, for greenhouses							
	SUNLITE® FR	Fire retardant, with better flammability retings							
	SUNLITE® Solar Control	Solar metallic reflective heat blocking sheet.							
x lechnology	SUNLITE® SLT	Heat blocking and anti-condensation for garden centers.							
E Contra	SUNLITE® CL	Heat blocking sheet for architectural applications							
elective solar	SUNLITE® Smart	See-through sheet with advanced heat-blocking.							



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SUNLITE®

Colors*

Cturretour			Standa	ard Colors			Multi	-Layered	Solar Smart Selective Solar Control Technology			LT = Light Transmi ST = Solar Transmi		
Structure	Clear	Bronze	White Opal	White Diffuser	Green**	Blue**	Bronze/Opal	Solar Guard (Solar Control/Opal)	Solar Ice	Solar Control**	CL	SLT	Smart Green	
Twin wall 4mm	82%	35%	30%		35%	30%				30%				
Twin wall 4.5mm	82%	35%	30%		35%	30%				30%				
Twin wall 6mm	80%	35%	20%	60%	35%	30%				30%				
Twin wall 8mm	80%	35%	35%	55%	35%	30%				25%	45%/34%	60%/55%		
Twin wall 10mm	79%	35%	30%		35%	30%				25%		60%/55%		
Triple wall 8mm	76%	35%	48%		35%	30%				25%				
Triple wall 10mm	76%	35%	48%		35%	30%				25%				
Triple wall 16mm	76%	35%		48%	35%	30%								
X-Lite 16mm	60%	25%		38%	35%						30%/25%			
V-Structure 20mm	63%	25%	20%	10%						18%				
V-Structure 25mm	62%			30%										
V-Structure 32mm	61%	20%		20%										
V-Structure 35mm	60%													
V-Structure 40mm	58%													
X-Lite 20mm	60%	25%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 25mm	60%	25%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 32mm	58%	20%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 35mm	57%	20%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 40mm	57%	20%	15%							20%				
7 Walls 10mm	64%	29%		45%										
7 Walls 16mm	64%	29%		38%										
7 Walls 20mm	62%	29%		38%										
7 Walls 25mm	60%	22%		38%										

^{*}Light transmission values adhere to ASTM D-1003. **Blue, Green and Solar Control are made to order only.

Dimensions

Structure	Thickness	Area Weight	U-Value													
Structure	(mm)	(Kg/m²)	(W/m²•°K)	700	980	1050	1200	1220*	1250	1600	1800	1830	2085	2090	2095	2100**
	4	0.8	3.8		~	~	~	~				~				~
T \A/- II	4.5	1.0	3.7		V	V	V					~				~
Twin Wall	6	1.3	3.5		~	~	~	~				~				~
	8	1.5	3.3		V	V	V	~				~				~
	10	1.7	2.9		V	V	V	~				V				~
Triple Wall	8	1.7	3.0									~				~
	10	2.0	2.7									~				~
	16	2.7	2.3		~	~	~	~	~	~	~	~				~
	16	2.5	2.1		V	~		V	~	~	~					~
	20	2.8	1.85		V	V		V	~	~	~					~
X-Lite	25	3.0	1.7		V	V		V	~	~	~					~
XXX	32	3.2	1.6		V	~		~	~	~	~					~
	35	3.5	1.5		~	~			~	~	~					~
	40	4.1	1.4							~	~					~
	20	2.8	1.85										~			
V-Structure	25	3.4	1.6											~		
THE STREET	32	3.6	1.5												~	
	35	3.8	1.45												~	
	40	4.0	1.35							V	V					~
	10**	1.9	2.3	~	V	V	V		~							~
7 Walls	16	2.55	1.75	~	V	V	~		~							~
	20	2.9	1.55	~	~	~	V		~							~
	25	3.4	1.39	~	~	V	V		V							~

^{*}Other structures, dimensions and weights are available upon request. Please contact your Palram distributor for more details. **Width of 7 Wall 10mm is 2096mm instead of 2100mm.

Typical Physical Properties

Property	Method*	Conditions	Units	Value	Property	Method*	Conditions	Units	Value
Density	D-792		g/cm³	1.2	Tensile strength at yield	D-638	10 mm/min	MPa	62
Heat deflection temperature (HDT)	D-648	Load: 1.82 MP	°C	135	Elongation at break	D-638	10 mm/min	%	>90
Service Temperature - Short term			°C	-50 to +120	Impact falling dart	ISO 6603/1		J	40-400
Service Temperature - Long term			°C	-50 to +100	Practical thermal expansion/contraction			mm/m	3
Coefficient of linear thermal expansio	n D-696		mm/mm °C	6.5x10 ⁻⁵	* ASTM except where noted otherwise	e.			

Flammability

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

^{*} Depends on sheet type. For more information please contact your Palram distributor.



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