





## 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 glazing applications.

SUNLITE has a wide product range: from anti-condensation treatment for greenhouses and garden centers to SolarSmart<sup>™</sup> sheets that create cool climatic conditions.

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

# Main Benefits

- C High thermal insulation
- Clightweight and impact resistant
- **(**High light transmission
- CExcellent structural durability
- Weather and UV resistance
- C Blocks virtually all UV radiation
- Casy to handle and install
- C High fire performance rating

# **Typical Applications**

- CArchitectural roofing and glazing
- **C**Skylights and sidelights
- Conservatories
- Covered walkways
- C Displays, signage and decorations
- Industrial roofing and glazing
- CResidential roofing and glazing
- Covered swimming pools
- CAgricultural greenhouses

## SUNLITE® Product Range

	Product	Description
	SUNLITE <sup>®</sup>	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.
art.	SUNLITE® Solar Control	Solar metallic reflective heat blocking sheet.
Solar Smart	SUNLITE® SLT	Heat blocking and anti-condensation for garden centers.
2 olar	SUNLITE® CL	Heat blocking sheet for architectural applications
Sola	SUNLITE <sup>®</sup> Smart	See-through sheet with advanced heat-blocking.
<b>N</b>	SUNLITE <sup>®</sup> Smart	See-through sheet with advanced heat-blocking.



# SUNLITE®

### Colors\*

Structure			Standa	ard Colors			Multi	-Layered		Solar		LT = Light Transmission ST = Solar Transmission		
	Clear	Bronze	White Opal	White Diffuser	Green**	Blue**	Bronze/Opal	Solar Guard (Solar Control/Opai)	Solar ice	Solar Control**	CL	SLT	Smart Green	
Twin wall 4mm	8296	35%	30%		35%	3095				30%				
Twin wall 4.5mm	8296	3596	30%		3596	30%				30%				
Twin wall 6mm	80%	35%	2096	60%	35%	30%				30%				
Twin wall 8mm	8096	35%	35%	55%	3596	30%				25%	4596/3496	6096/5596		
Twin wall 10mm	79%	3596	30%		3596	30%				25%		60%/55%		
Triple wall 8mm	76%	35%	48%		35%	30%				25%				
Triple wall 10mm	7696	35%	48%		3596	30%				25%				
Triple wall 16mm	76%	35%		48%	3596	30%								
X-Lite 16mm	60%	2596		38%	3596						3096/2596			
V-Structure 20mm	63%	25%	20%	10%						1896				
V-Structure 25mm	62%			30%										
V-Structure 32mm	61%	20%		20%										
V-Structure 35mm	60%													
V-Structure 40mm	58%													
X-Lite 25mm	60%	25%	15%				1096	5%	20%	20%	20%/16%		42%/35%	
X-Lite 32mm	58%	20%	15%				10%	5%	20%	20%	20%/16%		4296/35%6	
X-Lite 35mm	57%	20%	15%				1096	5%	20%	20%	20%/16%		42%/35%	
X-Lite 40mm	57%	2016	15%							20%				
7 Walls 10mm	64%	2996		45%										
7 Walls 16mm	64%	29%		38%										
7 Walls 20mm	6296	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					Wi	dth (m	nm) ("	USA Or	ily)				
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		1	~	~	~				4				~
T	4.5	1.0	3.7		~	~	~					~				~
Twin Wall	6	1.3	3.5		~	~	4	1				4				~
	8	15	3.3		~	~	~	~				~				~
	10	1,7	2,9		~	~	~	4				~				~
Triple Wall	8	1.7	3.0									~				~
	10	2.0	2.7									*				~
	16	2.5	2.3		~	~	~	~	v .	~	~	v				~
	16	2.5	2.1		~	~		~	V	~	~					~
X-Lite	25	3,0	1.7		~	~		~	v .	~	~					~
	32	3.2	1.6		1	~		~	~	~	~					~
	35	3.5	1.5		~	~			¥.	v.	~					
	40	4.1	1.4							~	~					~
	20	2.8	1.85										v .			
V-Structure	25	3.4	1.6											v .		
KENKENKEN	32	3.6	1.5												× .	
NANANA	35	3.8	1.45												~	
	40	4.0	1.35							~	~					~
	10**	1.9	2.3	~	~	~	~		~							~
7 Walls	16	2.55	1.75	~	~	~	~		~							~
	20	2.9	1.55		~	~	~		~							~
	25	3.4	1.39	~	1	~	~		~							~

\*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/cm <sup>4</sup>	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	96	>90
Service Temperature - Short term			. °C	-50 to +120	Impact falling dart	ISO 6603/1		d	40-400
Service Temperature - Long term			°C	-50 to +100	Practical thermal expansion/contractio	(h))		mm/m	3
Coefficient of linear thermal expansio	n D-696		mm/mm *C	6.5x10*	* ASTM except where noted otherwise				

### Flammability

Method	Classification*	Method	Classification*	Method	Classification*	Method	Classification*
BS 476/7	Class 1	ASTM D-635	CC-1 (SUNLITE* FR)	EN 13501	8, s1, d0	ASTM E-84	Class A

\* Depends on sheet type. For more information please contact your Palram distributor.