















## 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>155</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

- High thermal insulation
- Lightweight and impact resistant
- High light transmission
- Excellent structural durability
- Weather and UV resistance
- Blocks virtually all UV radiationEasy 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* Solar Control	Solar metallic reflective heat blocking sheet.
SUNLITE* SLT	Heat blocking and anti-condensation for garden centers.
SUNLITE® Smart	See-through sheet with advanced heat-blocking.





# SUNLITE®

### Colors\*

			ard Colors			Multi	-Layered	Sola	Smart.	LT = Light Transmission ST = Solar Transmission		
Structure	Clear	Bronze	White Opal	White Diffuser	Green**	Blue**	Bronze/Opal	Solar Guard (Solar Control/Opal)	Selective	Solar Control**	SLT	Smart Green
Twin wall 4mm	87%	35%	50%		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	8095	35%	35%	55%	35%	30%				25%	60%/55%	
Twin wall 10mm	79%	35%	30%		3596	30%				25%	60%/55%	
Triple wall 8mm	76%	35%	48%		35%	30%				25%		
Triple wall 10mm	/6÷L	35%	-8%		35%	30%				25%		
Triple wall 16mm	76%	35%		48%	35%	30%						
V-Structure 20mm	63%	25%	20%	1.3%						18%		
V-Structure 25mm	52%			30%								
V-Structure 32mm	6176	20%		20%								
V-Structure 35mm	50%											
V-Structure 10mm	5896											
X-Lite 16imm	60%	2596		38%	3596							
X-Lite 20mm	60%	25%	1596				10%	5%	20%	20%		42%/35%
X-Lite 25mm	5095	25%	1596				10%	5%	20%	20%		42%/35%
X-Lite 32mm	58%	20%	1596				10%	596	20%	20%		42%/35%
X-Lite 35mm	57%	2096	15%				10%	596	20%	2096		42 /35%
7 Walls 8mm	6436	29%		45%						20%		
7 Walls 10mm	64%	29%		45%							(//	
7 Walls 16mm	64%	2996		3896								
7 Walls 20mm	62%	2996		38%						110	//	
7 Wails 25mm	60%	22%		38%						//		

<sup>\*</sup>Light transmission values aghere to ASTM D-1003. \*\*Blue, Green and Solar Control are made to order only.

#### Dimensions

Structure	Thickness (mm)	Area Weight (Kg/m²)	U-Value (W/m².ºK)	700	980	1050	1200	1220*		h (mm 1600		A Only		2085	2090	2095	2100
	4	0.8	3.8	-	V	V	V	N				0	1/				V
T	4.5	1.0	3.7		V	V	V	1				V	11				V
Twin Wall	6	1.3	3.5		V	V	V	N				V	0				V
	8	1.5	3.3		V	N	V	V				V					V
	10	1.7	2.9		V	V	V	V		7	1	N					V
Triple Wall	8	1.7	3.0		//				/	11		V					V
THE FIGH	10	2.0	2.7	115			//					V					V
	16	2.7	2,3	1 11	V	V	V	K	V	V	V	V					V
	16	2.5	2.1		V	V		V	1	V	V						V
Xite	20	2.8	1.85		V	~		V	~	V	V						V
	25	3.0	1.7		V	N	1	V	V	V	V						V
	32	3.2	1.6		V	N	1	~	V	V	V						V
	35	3.5	1.5		V	VI			V	V	V			The second secon		I all all all all all all all all all al	V
	20	2.8	1.65											V			
V-Structure	25	3.4	1.6												~		
	32	3.6	1.5													V	
	35	3,8	1.45													V	
	40	4.0	1.35							V	V						V
	8	1.8	2.7	~	V	~	V	escolinia lute	V				V				
>Walls	10	1.9	2.3	V	~	~	~		V						~		
	16	2.65	1.75	V	V	V	V		V								V
	20	2,9	1.55	V	~	V	V		V								V
	25	3.4	1.39	V	V	V	V		V								V

<sup>\*</sup>Other structures, dimensions and weights are available upon request. Please contact your Palram distributor for more details.

### Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm³	1.2
Heat deflection temperature (HDT)	D-648	Load, 182 MP	*(	335
Service Temperature - Short term			40	-50 to +120
Service Temperature - Long term			**C	-50 to +130
Coe <sup>™</sup> cient of linear thermal expansion	D-696		mm/mm °C	6.5x10 <sup>-6</sup>
Tensile strength at yield	D-638	10 mm/min	MPa	62
Florigation at break	D-638	10 mm/min	1%	3 50.1
Impact falling dart	ISO 6603/1			40-400
Practical thermal expansion/contraction	1		mm/m	3

<sup>\*</sup> ASTM except where noted otherwise.

### Flammability

SUNLITE 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.

Classification*				
Class 1				
CC-I (SUNLITE® FR)				
B, s1, d0				
Class A				

<sup>\*</sup> For more detailed information please contact, your Palram distributor,





