





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 various types of roofing, wall cladding, and glazing applications.

SUNLITE has a wide product range: from anti-condensation treatment for greenhouses and garden centers to SolarSmart[™] 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 and displays.

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





Light Transmission* (LT) and Solar Heat Gain Coefficient (SHGC)*

Standard Colors				Multi-l	ered																				
Structure	Clear		Bronze		White Opal		White Diffuser Green**		Green**		Blue**	Bronze/ Opal	Solar Guard (Solar Control/ Opal)	Solar Metallic Reflective			Infra-Red Reflective			tive	Selective See Through				
Structure									chi	Sola				r Ice	Solar (Control*	C	1L	S	LT	Smart	Green			
	LT%	SHGC	LT%	Shgc	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT% SHGC	LT%	6 SHGC	LT%	Shgc	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC
Twin wall 4mm	82%	0.83	35%	0.48	30%	0.30			35%	0.54	30%	0.71						30%							
Twin wall 4.5mm	82%		35%		30%				35%		30%							30%							
Twin wall 6mm	80%	0.82	35%	0.55	20%	0.24		0.24	35%	0.51	30%	0.66				30%	0.41	30%	0.41						
Twin wall 8mm	80%	0.81	35%	0.47	18%/35%	0.30/0.35		0.35	35%		30%	0.67					0.39	25%	0.36	45%	34	60%	0.55		
Twin wall 10mm	79%	0.81	35%	0.55	30%	0.40			35%	0.59	30%	0.68					0.35	25%	0.36			60%			
Triple wall 8mm	76%		35%		48%				35%		30%							25%							
Triple wall 10mm	76%		35%		48%				35%		30%							25%							
Triple wall 16mm	76%	0.77	35%	0.58			48%	0.53	35%		30%	0.66					0.35	25%	0.36						
X-Lite 16mm	60%	0.61	25%	0.49		0.40	38%		35%	0.49		0.51					0.29	18%	0.25	30%	25				
V-Structure 20mm	63%																								
X-Lite 25mm	60%	0.65	25%	0.42	15%	0.32							10% 0.22	5%	0.22	20%				20%	16			42%	35
X-Lite 32mm	58%	0.66	20%	0.42	15%								10% 0.30	5%	0.22	20%				20%	16			42%	35
X-Lite 35mm	57%	0.59	20%	0.36	15%								10% 0.30	5%	0.22	20%				20%	16			42%	35
X-Lite 40mm	57%	0.52	20%	0.36	15%																				
A-Elle 4011111 57% 0.32 20% 0.38 15% #ASTM D-1003 **Blue. Green and Solar Control sheets are produced per order.																									

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Dimensions

Structure	Thickness	Area Weight	U-Value					Widt	h (mm)	(*USA	Only)				
	(mm)	(Kg/m²)	(W/m² °K)	980	1050	1200	1220*	1250	1600	1800	1830	2085	2090	2095	2100
Twin Wall	4	0.8	3.8	× .	×	× .	v .				×				v
	4.5	1.0	3.7	 Image: A set of the set of the	 V 	 					 Image: A second s				 Image: A set of the set of the
	6	1.3	3.5	 ✓ 	 V 	 	 V 				 				 ✓
	8	1.5	3.3	 ✓ 	 V 	 	 V 				 ✓ 				 ✓
	10	1.7	2.9	×	 V 	 	 V 				 ✓ 				 ✓
Triple Wall	8	1.7	3.0								 				 ✓
	10	2.0	2.7								 V 				 V
	16	2.7	2.3	v	 V 	 	V	 V 	 V 	v	 V 				 V
	16	2.5	2.1	 V 	 		V	 V 	 Image: A set of the set of the	v					 V
X-Lite	25	3.4	1.7	 V 	V		 V 	 V 	 	 V 					 ✓
	32	3.7	1.6	 V 	 V 		 V 	 V 	 V 	×					 V
	35	3.9	1.5	×	 V 			 V 	 V 	×					 V
	40	4.1	1.4						 V 	×					 V
	20	2.8	1.85									×			
V-Structure	25	3.4	1.6										×		
	32	3.6	1.5											×	
	35	3.8	1.45											×	
	40	4.0	1.35						 V 	×					 V

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® CL	Heat blocking sheet for architectural applications						
SUNLITE [®] Smart	See-through sheet with advanced heat-blocking.						

Regulatory Code Compliance Certification

Organization	Standard	Classification*
ICC (International Code Council)	IBC-2006 (Light transmitting plastic)	ESR-1893
NRC-CNRC	Canadian NBC 2010 (canopy covering)	CCMC Evaluation Report 13450-R
	Flammability Related (Produc	t Specific)
ASTM	D-635	CC-1
ASTM	E-84	Class A
*Depends on thickne	255	

Physical Properties

For detailed information on SUNLITE physical properties please visit: www.PalramAmericas.com/Sunlite.

PALRAM

Solar Smart

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Authorized Distributor

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