

SUNLITE®

Multi-Wall Structured Polycarbonate Sheets

Introduction

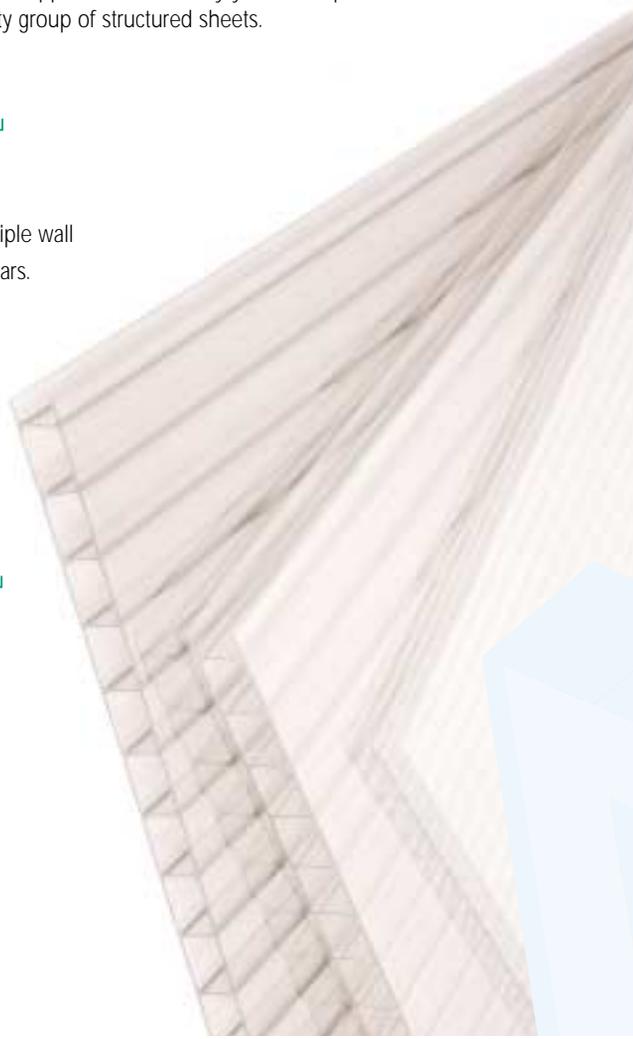
SUNLITE polycarbonate sheets combine the superior characteristics of polycarbonate with the advantages offered by multi-wall design. This yields a light, strong, insulating and attractive sheet for varied roofing, cladding, glazing and other applications in construction, advertising, agriculture, industry and DIY. SUNLITE sheets are manufactured and available from Suntuf located near Allentown PA, a subsidiary of Palram Industries. Palram has applied almost forty years of experience in sheet extrusion (fifteen years with polycarbonate) to create this high quality group of structured sheets.

Features at a Glance

- Impact Resistant - Virtually unbreakable
- Light Weight
- Transparent - 76-82% light transmission for twin and triple wall
- Weather and UV Resistant - Properties retained for years.
- Superb Thermal Insulation - Saves Energy
- Anti-condensation Treatment Available
- High Fire Performance Rating
- Easy to work with and install using ordinary tools.
- Rigid, yet flexible

Applications

- Conservatories
- Skylights
- Signs
- Covered Walkways
- Industrial Roofing and Glazing
- Do-It-Yourself (DIY)
- Swimming Pools
- Greenhouses
- Four Seasons Rooms



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Table of Typical Properties							
H.D.T. (264 psi)		222 °F					
Thermal Expansion Delta T @ 104 °F		0.03 in./ft. - clear & opal 0.054 in./ft. - bronze					
Service Temperature Range		-40 to +250 °F					
R Value		1.5 to 3.8 Btu-in./hr.-ft ² -°F					
		Light Transmission					
		Clear	Bronze	White Opal	Opal (WD)	Solar Metallic	Solar Ice
Twin Wall	5/32 in.	82%	35%	30%			
Twin Wall	1/4 in.	80%	35%	20%			
Twin Wall	5/16 in.	80%	35%	35%		25%	
Twin Wall	3/8 in.	79%	35%	30%		25%	20%
Triple Wall	5/16 in.	78%		48%			
Triple Wall	3/8 in.	77%		48%			
Triple Wall	5/8 in.	76%	35%		48%	25%	20%
Structured	1 in.	55%	20%		20%	25%	20%
Structured	1.25 in.	50%	20%		20%	25%	20%

Handling & Installation

- Store SUNLITE under a sheet or indoors.
- SUNLITE sheets should be stored, covered placed on a pallet
- Do not store SUNLITE sheets without sealing the open ends to prevent dust and moisture from entering.
- Install SUNLITE sheets in such a way as to permit gravity drainage.
- Seal the open ends before installation with compatible impermeable anti-dust tape and an anti-dust venting tape.
- Use only compatible silicones and gaskets.
- Cut SUNLITE with a jigsaw or a cutting knife.
- Remove the polyethylene protective film IMMEDIATELY after installation to avoid irreversible damage.

Detailed installation instructions ("Installing SUNLITE") are available from your Suntuf Inc. distributor.

Flammability

SUNLITE sheets are self-extinguishing and comply with the most demanding of international fire resistance standards defined in the field of plastics, as indicated by representative results in the table below.

Country	Method	Classification
United States	ASTM D-635	CC-1*
United Kingdom (UK)	BS 476/7	Class 1
Germany	DIN 4102	B-1

*SUNLITE SL

Colors and Dimensions

Standard Colors: Clear (transparent), Bronze, White Opal, Opal (WD), Sky Blue* (transparent), Sea Green* (transparent), White Opaque*

Speciality Products: Solar Control, available in Solar Metallic and Solar Ice; SUNLITE UV2 (UV protection on two sides); SUNLITE Plus (with anti-condensation treatment on one side)

Standard Widths*: 48, 72, 82 in..

Length*: 6.7- 39.4 ft.

Structure, Thickness, Weight:

Structure	Thickness		Weight	
	in.	mm	psf	g/m ²
Twin wall 	5/32	4	0.16	800
	1/4	6	0.27	1,300
	5/16	8	0.31	1,500
	3/8	10	0.35	1,700
Triple wall 	5/16	8	0.35	1,700
	3/8	10	0.41	2,000
	5/8	16	0.55	2,700
*Structured 	1	25	0.72	3,500
	1 1/4	32	0.78	3,800

* Non-standard products (lengths, widths and colors) are available subject to a minimum order quantity.

Inasmuch as Suntuf Inc. has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Suntuf Inc. patent covering such use or as recommendations for use of such materials in the infringement of any patent. Suntuf Inc. or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development you are advised to check with your local Suntuf Inc. supplier to ensure that you have obtained the most up to date information.



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