



# SUNLITE®

## *Multiwall Polycarbonate Sheet*



Glazing



Construction



DIY



Advertising



Agriculture

### ► Overview

SUNLITE multiwall sheets combine the characteristic strength of polycarbonate with superior insulation. This combination yields a strong, insulating, and lightweight sheet for varied roofing, cladding, and glazing applications. Some products in the SUNLITE line feature special solar properties designed to reflect certain wavelengths of solar energy, helping to minimize heat gain. Others are available with built-in condensate control.

### ► Features and Benefits

- X-Lite structure is available for improved mechanical performance
- Superb thermal insulation - Energy saving
- Lightweight and impact resistant
- High light transmission
- Weather and UV resistant benefits
- Blocks all harmful UV radiation
- High fire performance rating

### ► Applications

- Conservatories
- Skylights and covered walkways
- Signs
- Industrial roofing and glazing
- Do-It-Yourself (DIY)
- Swimming pools



## ► Typical Physical Properties

Property	(Method*)	Conditions	Units	Value
Density	(D-792)		lbm/ft <sup>3</sup>	75
Heat Deflection Temperature	(D-648)	Load: 264 psi	°F	266
Service Temperature - Short Term			°F	-60 to +250
Service Temperature - Long Term			°F	-60 to +210
Coefficient of Linear Thermal Expansion	(D-696)		10 <sup>-5</sup> /°F	3.5
Tensile Strength at Yield	(D-638)	0.4 in./min.	psi	9000
Elongation at Break	(D-638)	0.4 in./min.	%	>80
Impact Falling Dart	(ISO 6603/1)		ft x lb	30 - 300
Thermal Expansion / Contraction Range			in./ft	0.4

\* ASTM except where noted otherwise

## ► Flammability Ratings & Code Approvals

SUNLITE complies with international fire resistance standards, as presented by the results in the table on the right.

\* Classification and code approvals may vary according to product and thickness. Contact your SUNLITE distributor for more information.

Method	Classification*
BS 476/7	Class 1
DIN 4102	B-1
NSP 92501	M-1, M-2
ASTM D-635	CC-1
ASTM E-84	Class A**

Jurisdiction	Code Approvals*
FBC Number	FL-7023
ICC Number	ESR-1893"

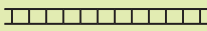
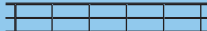

## ► Colours & %Light Transmissions (ASTM-1003)

Structure	Standard						Multi-Layer		Solar Control		Solar Smart™ Selective Solar Control Technology	
	Clear	Bronze	Opal White	Opal White Diffuser	Green*	Blue*	Bronze/Opal	Solar Guard (Solar-Control/Opal)	Solar Ice	Solar Metallic Grey*	CL Pearlescent Purple	SLT Diffused Opal
											LT / SHG	LT / SHG
Twin Wall 4 mm	82%	35%	30%		35%	30%				30%		
Twin Wall 4.5 mm	82%	35%	30%		35%	30%				30%		
Twin Wall 6 mm	80%	35%	20%		35%	30%				30%		
Twin Wall 8 mm	80%	35%	35%		35%	30%				25%		60% / 55%
Twin Wall 10 mm	79%	35%	30%		35%	30%				25%	45% / 34%	60% / 55%
Triple Wall 8 mm	76%	35%	48%		35%	30%				25%		
Triple Wall 10 mm	76%	35%	48%		35%	30%				25%		
Triple Wall 16 mm	76%	35%		48%	35%	30%				25%		
X-Lite 10 mm												
X-Lite 16 mm	60%	25%		38%	35%						30% / 25%	
X-Lite 25 mm	60%	25%	15%				10%	5%	20%		20% / 16%	
X-Lite 32 mm	58%	20%	15%				10%	5%	20%		20% / 16%	
X-Lite 35 mm	57%	20%	15%				10%	5%	20%		20% / 16%	

\* Colors Blue, Green and Solar Metallic Grey are made to order only.

SHG = Solar Heat Gain

## ► Standard Dimensions

Structure	Thickness in. (mm)	Area Weight lbs/ft <sup>2</sup> (kg/m <sup>2</sup> )	U-value btu/hr-ft <sup>2</sup> -°F (W/m <sup>2</sup> -°K)		Sheet Width mm								
					Standard				Non-Standard				
					980	1050	US Only 1200	US Only 1220	1250	1600	1800	US Only 1830	2100
Twin-Wall 	5/32 (4)	0.16 (0.8)	0.67	3.8	✓	✓	✓	✓	✓			✓	✓
	11/64 (4.5)	0.2 (1.0)	0.65	3.7	✓	✓	✓	✓	✓			✓	✓
	1/4 (6)	0.27 (1.3)	0.62	3.5	✓	✓	✓	✓	✓			✓	✓
	5/16 (8)	0.31 (1.5)	0.58	3.3	✓	✓	✓	✓	✓			✓	✓
	3/8 (10)	0.35 (1.7)	0.53	3.0	✓	✓	✓	✓	✓			✓	✓
Triple-Wall 	5/16 (8)	0.35 (1.7)	0.51	2.9								✓	✓
	3/8 (10)	0.41 (2.0)	0.47	2.7								✓	✓
	5/8 (16)	0.55 (2.7)	0.41	2.3	✓	✓	✓	✓	✓	✓	✓	✓	✓
X-Lite 	3/8 (10)	0.39 (1.9)	0.45	2.6									✓
	5/8 (16)	0.51 (2.5)	0.37	2.1	✓	✓		✓	✓	✓	✓		✓
	1 (25)	0.70 (3.4)	0.30	1.7	✓	✓		✓	✓	✓	✓		✓
	11/4 (32)	0.76 (3.7)	0.28	1.6	✓	✓		✓	✓	✓	✓		✓
	13/8 (35)	0.80 (3.9)	0.26	1.5	✓	✓		✓	✓	✓	✓		✓

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