

SUNLITE®

Multi-Wall Polycarbonate Sheet



Glazing



Construction



DIY



Advertising



Agriculture

► Introduction

SUNLITE sheets combine the characteristic strength of polycarbonate with superior insulation. This combination yields a strong, insulating, lightweight and attractive sheet for varied roofing, cladding, and glazing. SUNLITE provides solutions for markets as diverse as construction, agriculture, industry, DIY and advertising.

► Features at a Glance

- **New:** X-Lite structure for improved overall mechanical performance
- Energy saving
- Excellent impact resistance
- Lightweight
- High light transmission
- Weather and UV resistant benefits
- Superb thermal insulation - Energy saving
- Blocks virtually all UV radiation
- Easy to handle and install
- High fire performance rating

► Applications

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



► Typical Physical Properties

Property	(Method)	Conditions	Units	Value
Density	(D-1505)		g/cm ³	1.2
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	130
Service Temperature - Short Term			°C	-50 to +120
Service Temperature - Long Term			°C	-50 to +100
Coefficient of Linear Thermal Expansion	(D-696)		10 ⁻⁵ /°C	6.5
Tensile Strength at Yield	(D-638)	10 mm/min	MPa	62
Elongation at Break	(D-638)	10 mm/min	%	>80
Impact Falling Dart	(ISO 6603/1)		J	40 - 400

► Flammability

SUNLITE complies with international fire resistance standards, as presented by the results in the following table :

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

* For additional information please consult your SUNLITE distributor.

► Colors

Standard

Clear, Bronze, Opal,

Special Transparent

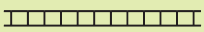


Sky Blue, Sea Green.

ML (Multi-Layered)

Bronze/Opal, Solar Guard.

Structure	% Light Transmission by Colours									
	Standard Colours							Multi-Layer		
	Clear	Bronze	Solar Grey	White Opal	Opal WD	Solar Metallic Grey	Solar Ice	Bronze/Opal	Solar Guard	
Twin Wall 4 mm	82%									
Twin Wall 6 mm	80%									
Twin Wall 10 mm	79%	35%		30%						
Triple Wall 16 mm	76%	35%			48%					
X-Lite 25 mm	60%	25%			20%			10%	5%	
X-Lite 35 mm	57%	20%			20%			10%	5%	

► Standard Dimensions

Structure	Thickness mm	Area Weight kg/m ²	U-value W/m ² °K	For Standard Sheet Sizes See Following Page -
Twin-Wall 	4	0.8	3.8	SUPPLIED CUT TO SIZE Max 6mtr x 2100mm
	6	1.3	3.5	
	10	1.7	3.0	
Triple-Wall 	16	2.7	2.3	
	X-Lite 	25	3.4	
	35	3.9	1.5	

► Additional SUNLITE® Products

- Solar Control™ *Breaking the penetrating heat/light ratio*
- SUNLITE® UV2 *UV protection on two sides*
- SUNLITE® Plus *Clear SUNLITE with anti-condensation treatment*
- SUNLITE® CL *With advanced heat filtering for architectural applications*
- SUNLITE® AG *With special coloring and anti-condensation*

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EPSE



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**Multiwall Polycarbonate
Thickness, Colour &
Structure**

Standard Sheet Widths Available (mm)

	700	800	900	925	1050	1220	1600	1850	2100
4mm Clear Twinwall	■				■				■
6mm Clear Twinwall	■				■				■
10mm Clear Twinwall	■			■	■	■		■	■
10mm Bronze Twinwall	■				■				■
10mm Opal Twinwall	■				■				■
16mm Clear Triplewall	■	■	■		■		■		■
16mm Bronze Triplewall	■	■	■		■		■		■
16mm Opal Triplewall	■	■	■		■		■		■
25mm Clear X-wall	■	■	■		■		■		■
25mm Bronze X-wall	■	■	■		■		■		■
25mm Opal X-wall	■	■	■		■		■		■
25mm Bronze/Opal X-wall	■	■	■		■		■		■
25mm Heatguard/Opal X-wall	■	■	■		■		■		■
32mm Clear X-wall	■	■			■		■		■
32mm Bronze X-wall	■	■			■		■		■
32mm Opal X-wall	■	■			■		■		■
32mm Bronze/Opal X-wall	■	■			■		■		■
32mm Heatguard/Opal X-wall	■	■			■		■		■
35mm Clear X-wall	■	■			■		■		■
35mm Bronze X-wall	■	■			■		■		■
35mm Opal X-wall	■	■			■		■		■
35mm Bronze/Opal X-wall	■	■			■		■		■
35mm Heatguard/Opal X-wall	■	■			■		■		■

Standard Lengths Available:

2.0m, 2.5m, 3.0m, 3.5m, 4.0m,
4.5m, 5.0m, 6.0m, 7.0m