

Uniclass	EPIC
L522:P* Cl/SFB	E321:X*
(47)	Rn6



# 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 <sup>3</sup>	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 <sup>-5</sup> /°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, Solar Metallic.

### Special Transparent

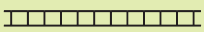
Sky Blue, Sea Green.

### ML (Multi-Layered)

Bronze/Opal, Solar Guard.

Structure	% Light Transmission by Colours										
	Standard Colours							Multi-Layer		New DC	
	Clear	Bronze	Solar Grey	White Opal	Opal WD	Solar Metallic Grey	Solar Ice	Bronze/Opal	Solar Guard	CL	AG
Twin Wall 4 mm	82%	35%	25%	30%		30%					
Twin Wall 4.5 mm	82%	35%	25%	30%		30%					
Twin Wall 6 mm	80%	35%	25%	20%		30%					
Twin Wall 8 mm	80%	35%	25%	35%		25%				45%	45%
Twin Wall 10 mm	79%	35%	25%	30%		25%				45%	45%
Triple Wall 8 mm	76%	35%		48%		25%					
Triple Wall 10 mm	76%	35%		48%		25%					
Triple Wall 16 mm	76%	35%	25%		48%	25%		20%	10%		
X-Lite 10 mm	63%										
X-Lite 16 mm	60%	25%			38%	18%	15%				30%
X-Lite 25 mm	60%	25%			20%	20%	15%	10%	5%		20%
X-Lite 32 mm	58%	20%			20%	20%	15%	10%	5%		20%
X-Lite 35 mm	57%	20%			20%	20%	15%	10%	5%		20%

## ► Standard Dimensions

Structure	Thickness mm	Area Weight kg/m <sup>2</sup>	U-value W/m <sup>2</sup> °K	Standard Sheet Width (mm)								
				980	1050	1220	1250	1600	1800	1830	2100	
Twin-Wall 	4	0.8	3.8	✓	✓	✓	✓				✓	✓
	4.5	1.0	3.7	✓	✓						✓	✓
	6	1.3	3.5	✓	✓	✓	✓				✓	✓
	8	1.5	3.3	✓	✓	✓	✓				✓	✓
	10	1.7	3.0	✓	✓	✓	✓				✓	✓
Triple-Wall 	8	1.7	2.9								✓	✓
	10	2.0	2.7								✓	✓
	16	2.7	2.3	✓	✓	✓	✓	✓	✓	✓	✓	✓
X-Lite 	10	1.9	2.6								✓	✓
	16	2.5	2.1	✓	✓	✓	✓	✓	✓	✓	✓	✓
	25	3.4	1.7	✓	✓	✓	✓	✓	✓	✓	✓	✓
	32	3.7	1.6	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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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