

Uniclass	EPIC
L522:P* CI/SfB	E321:X*
(47)	Rn6



# SUNLITE® ML

*Multi-layered Multi-wall Structured Polycarbonate Sheet*



Glazing



Construction



DIY

## ► Introduction

SUNLITE ML allows combinations of different colours in one sheet, and adds a multi-layer technological edge to the already wide range of SUNLITE products. SUNLITE multi-layered products provide the benefits of solar energy treatment, delivering cool natural light without sacrificing the interior. SUNLITE ML adds new attractive dimension to any conservatory, and may also appeal to architects, who would appreciate this creative element when designing structures.

## ► Features and Benefits

- **New:** X-Lite structure for improved overall mechanical performance
- Reduced heat buildup
- White interior blends with any decor
- Range of thicknesses available
- Supplied in standard SUNLITE widths
- Compliments all fabricated roof structures and glazing systems
- Bronze/Opal and Solar Guard color combinations
- Softer lighting effect created when using opal

*Solar Control on the Outside*



*White Opal on the Inside*



## ► SUNLITE® Colours & Light Transmissions

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%

NEW

## ► Typical Properties Table

Property	(Method)	Conditions	Units	Value
Density	(D-792)		g/cm <sup>3</sup>	1.2
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	130
Short Term Service Temperature Range			°C	-50 to +120
Long Term Service Temperature Range			°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
Thermal Expansion / Contraction Range			mm/m	3

## ► Flammability

SUNLITE complies with international fire resistance standards as represented by 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

\* Results depend on thickness and profile.  
For additional information consult your SUNLITE distributor.

## ► Standard Dimensions

Profile	Thickness mm (In.)	Width (mm)				
		980	1050	1600	1800	2100
Triple Wall	16 (5/8)	x	x	x	x	x
X-Lite	25 (1)	x	x	x	x	x
X-Lite	32 (1 1/4)	x	x	x	x	x
X-Lite	35 (1 3/8)	x	x	x	x	x

## ► Additional SUNLITE® Products

Solar Control™ For breaking the penetrating heat/light ratio

SUNLITE® UV2 Co-extruded UV protection on both 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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