

Uniclass	EPI0
L522:P* CI/SFB	E321:X*
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# SUNLITE® ML

*Multi-layered Multi-wall Structured Polycarbonate Sheet*



## ► 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.

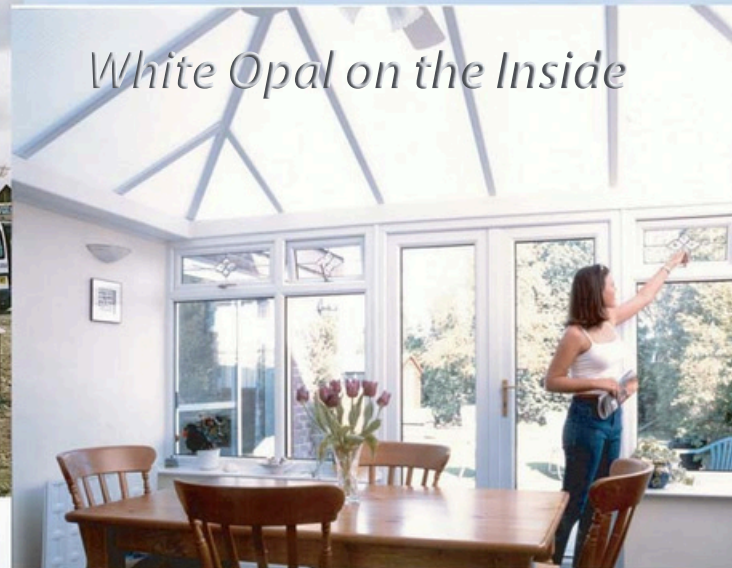
## ► Features and Benefits

- **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 4mm	82%	35%	25%	30%		30%					
Wall Twin 4.5mm	82%	35%	25%	30%		30%					
Twin Wall 6mm	80%	35%	25%	20%		30%					
Wall 10mm	80%	35%	25%	35%		25%				45%	45%
Triple Wall 6mm	79%	35%	25%	30%		25%				%	%
Triple Wall 10mm	76%	35%		48%		25%				45%	45%
mm Triple Wall 16mm	76%	35%		48%		25%				%	%
X-Lite 10mm	63%										
X-Lite 16mm	60%	25%			38%	18%	15%				30%
X-Lite 25mm	60%	25%			%	20%	%	10%	5%		%
X-Lite 32mm	58%	20%			20%	20%	15%	%	%		20%
X-Lite 35mm	57%	20%			%	20%	%	10%	5%		%
					20%		15%	%	%		20%
					%		%	10%	5%		%
					20%		15%	%	%		20%
					%		%				%

NEW

## Typical Properties Table

Property	(Method)	Conditions	Units	Value
Density	Heat Deflection Temperature (D-638)		g/cm <sup>3</sup>	1.2
Short Term Service Temperature Range	792	Load: 1.82 MPa	°C	130
Long Term Service Temperature Range	(D-638)		°C	-50 to +120
Coefficient of Linear Thermal Expansion	648		°C	-50 to +100
Tensile Strength at Yield Elongation at	(D-638)		10 <sup>5</sup> /°C	6.5
Break Impact Falling Dart Thermal	696	10 mm/min	MPa	62
Expansion / Contraction Range	(D-638)	10 mm/min	%	>80
	(ISO 303/1)		J	40 - 400
	(D-638)		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	16 (5/8)	x	x	x	x	x
Wall X-	25 (1)	x	x	x	x	x
Lite X-	32 (1 1/4)	x	x	x	x	x
Lite X-	35 (1 3/8)	x	x	x	x	x

## Additional SUNLITE® Products

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

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