



SUNLITE® ML

Multi-Layered Multiwall Polycarbonate Sheet



► Introduction

SUNLITE ML allows combinations of different colors 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 exterior tints that deliver cool natural light and interior tints that enhance any dwelling. SUNLITE ML adds an attractive dimension to any conservatory, and also appeals to architects, who appreciate this creative element when designing structures.

Soft White Opal Interior



► Features and Benefits

- X-Lite structure is available for improved 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 or Solar-Control/Opal color combinations
- Softer lighting effect created when using opal

Heat Blocking SolarSmart™ Exterior



► Typical Physical Properties

Property	(Method)	Conditions	Units	Value
Density	(D-792)		lbm/ft ³	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 ⁻⁵ /°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

► Standard Dimensions

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

► Colours & %Light Transmissions (ASTM-1003)

Structure	Standard						Multi-Layer		Solar Control		SolarSmart™ 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 LT / SHG	SLT Diffused Opal 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

► SUNLITE® Product Range

SUNLITE® UV2 UV protection on two sides

SUNLITE® Plus Clear SUNLITE with anti-condensation treatment

Solar Control Metallic reflective heat rejection

SUNLITE® CL Advanced heat blocking with pearlescent appearance

SUNLITE® SLT Advanced heat blocking, optional anti-condensation treatment

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► 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 thick ness. 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"



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