



SUNLITE® ML

Multi-Layered Multiwall Polycarbonate Sheet



Glazing



Construction



DIY

► Introduction

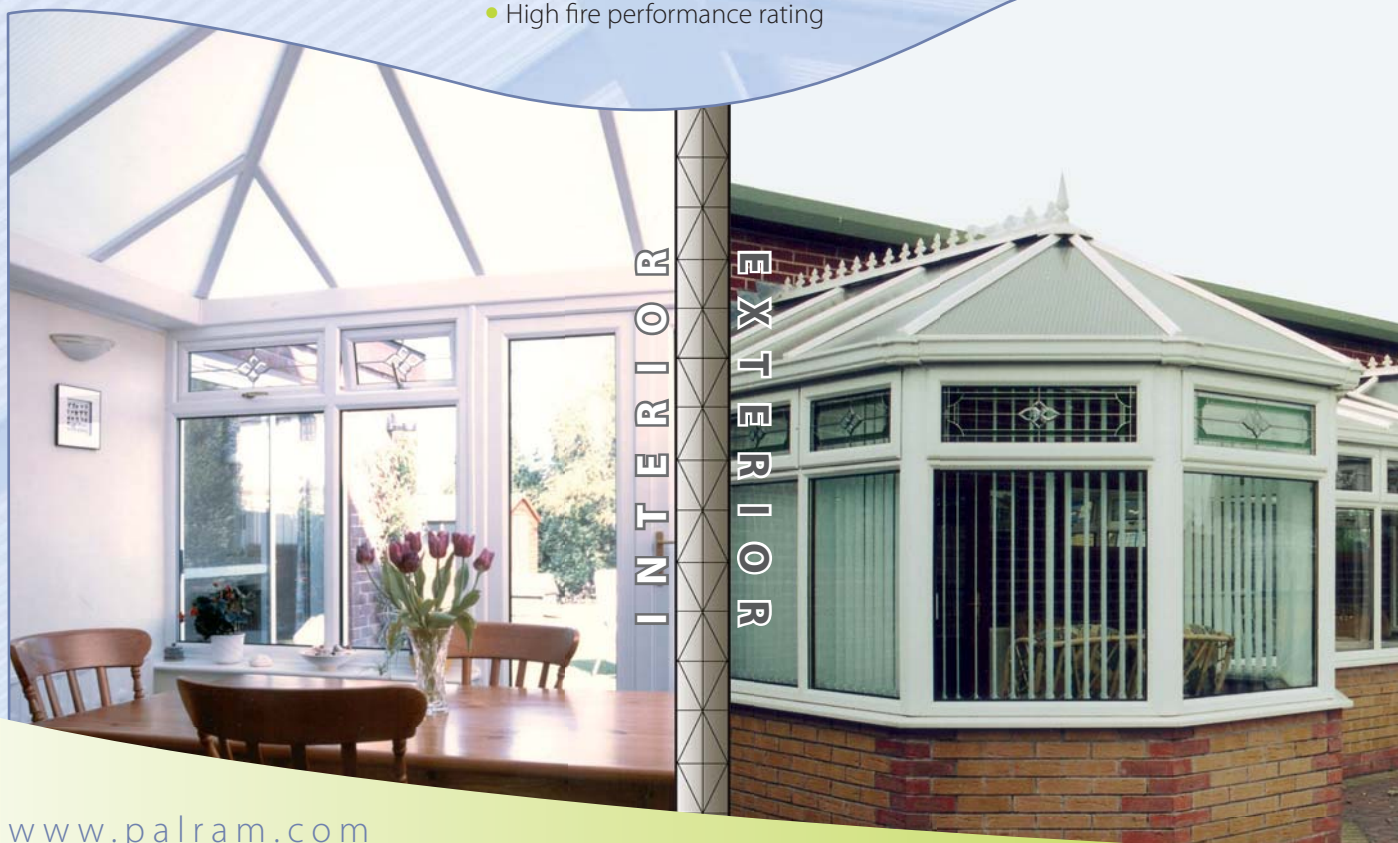
SUNLITE ML offers multi layered color combinations in a single sheet. With its superb thermal insulation, SUNLITE ML offers a perfect combination of low light transmission exterior with calming soft white opal interior for conservatories and verandas. Its special appearance can also be used as multi-colored partitions and other decorative designs.

► Main Benefits

- One sheet combining separate exterior and interior colors
- Opal interior with soft lighting effect
- Tailor-made color combinations are available for a minimum quantity
- Energy-saving thermal insulation
- Blocks virtually all UV radiation
- Lightweight and impact resistant
- Excellent structural durability
- Weather and UV resistant
- High fire performance rating

► Applications

- Conservatories
- Architectural roofing & glazing
- Decorative interior design
- Covered walkways
- Advertising: displays and signs
- Covered swimming pools



SUNLITE® ML Standard Dimensions

Structure	Thickness mm	Area Weight Kg/m ²	U-Value W/m ² °K	Width (mm)							
				980	1050	1200	1220	1250	1600	1800	2100
X-Lite	25	3.4	1.7	Standard	Standard	On Demand	On Demand	On Demand	Standard	Standard	Standard
	32	3.7	1.6	Standard	Standard	On Demand	On Demand	On Demand	Standard	Standard	Standard
	35	3.9	1.5	Standard	Standard	On Demand	On Demand	On Demand	Standard	Standard	Standard

SUNLITE® Product Range

Product	Description
SUNLITE®	Multiwall polycarbonate sheet with UV protection on one side
SUNLITE® UV2	UV protection on both sides
SUNLITE® ML	Multi-layered color combinations for special designs
SUNLITE® Plus	High light transmission and anti-condensation for agricultural applications
SUNLITE® Solar Control	Solar metallic reflective heat blocking
SUNLITE® CL	Pearlescent purple Infrared reflective top layer blocks heat and keeps the sheet cool, for architectural applications
SUNLITE® SLT	Diffused white reflective top layer blocks heat and keeps the sheet cool, for greenhouses & garden centers, with optional anti-condensation
SUNLITE® Smart	See-through sheet with advanced heat-blocking

Typical Physical Properties

Property	method*	Condition	Units	Value
Density	D-792		g/cm ³	1.2
Head deflection temperature (HDT)	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		cm/cm °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 rate			mm/m	3

* ASTM except where noted otherwise.

Flammability

SUNLITE complies with international fire resistance standards, as presented by the results in the table on the right. * Classifications depend on sheet type and thickness. For more information please refer to your SUNLITE distributor.

Method	Classification*
BS 476/7	Class 1
DIN 4102	B-1 (10&16mm Triple Wall)
NSP 92501	M-1, M-2
ASTM D-635	CC-1 (SUNLITE® SL)
ASTM E-84	Class A
EN 13501	B-s1, d0

SUNLITE® Colors and Light Transmissions*

Structure	Standard Colors						Multi-Layered		Solar Smart™ Selective Solar Control Technology					
	Clear	Bronze	White Opal	White Diffuser	Green**	Blue**	Bronze/Opal	Solar Guard (SMR Control/Opal)	Solar Metallic Reflective		Infra-Red Reflective		Selective See Through	
									Solar Ice	Solar Control**	CL	SLT		
Twin wall 4mm	82%	35%	30%		35%	30%				30%				
Twin wall 4.5mm	82%	35%	30%		35%	30%				30%				
Twin wall 6mm	80%	35%	20%		35%	30%				30%				
Twin wall 8mm	80%	35%	35%		35%	30%				25%	45%/34%	60%/55%		
Twin wall 10mm	79%	35%	30%		35%	30%				25%		60%/55%		
Triple wall 8mm	76%	35%	48%		35%	30%				25%				
Triple wall 10mm	76%	35%	48%		35%	30%				25%				
Triple wall 16mm	76%	35%		48%	35%	30%								
X-Lite 10mm														
X-Lite 16mm	60%	25%		38%	35%						30%/25%			
V-Structure 20mm	63%													
X-Lite 25mm	60%	25%	15%				10%	5%	20%		20%/16%			42%/35%
X-Lite 32mm	58%	20%	15%				10%	5%	20%		20%/16%			42%/35%
X-Lite 35mm	57%	20%	15%				10%	5%	20%		20%/16%			42%/35%
X-Lite 40mm	57%	20%	15%											

*ASTM D-1003 **Colors Blue, Green and SMR Control are made to order only. **For BBA tested product specifications, please contact your UK agent or refer to BBA website.

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