



SUNLITE®

Multiwall Polycarbonate Sheet



AGRICULTURE



CONSTRUCTION



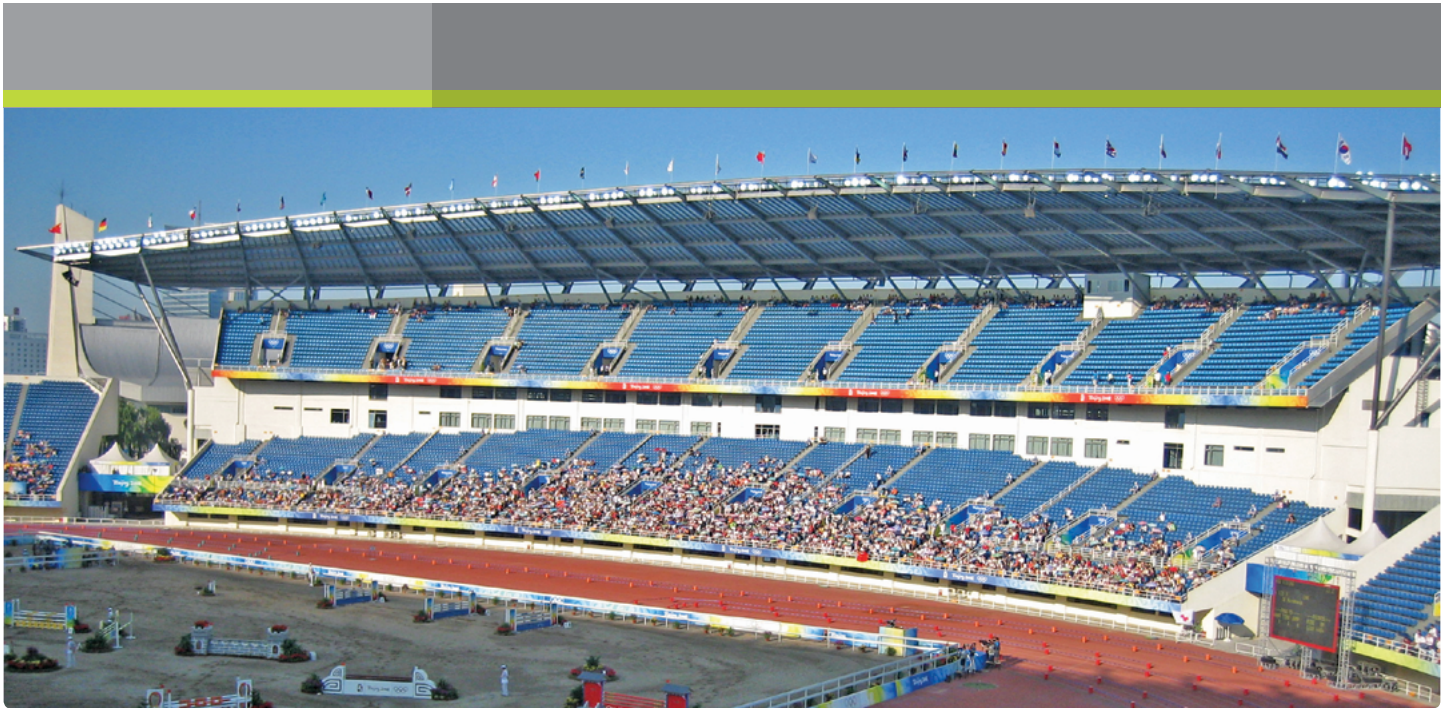
DIY



SIGN & DISPLAY



ARCHITECTURE



Overview

SUNLITE's cellular polycarbonate structure yields a lightweight sheet with high impact strength and superior thermal insulation. High light transmission makes SUNLITE ideal for varied roofing, wall cladding, and glazing applications.

SUNLITE has a wide product range: from anti-condensation treatment for greenhouses and garden centers to SolarSmart™ sheets that create cool climatic conditions.

Interior designers and advertisers take advantage of SUNLITE's special appearance and add a unique touch to their designs.

Main Benefits

- High thermal insulation
- Lightweight and impact resistant
- High light transmission
- Excellent structural durability
- Weather and UV resistance
- Blocks virtually all UV radiation
- Easy to handle and install
- High fire performance rating

Typical Applications

- Architectural roofing and glazing
- Skylights and sidelights
- Conservatories
- Covered walkways
- Displays, signage and decorations
- Industrial roofing and glazing
- Residential roofing and glazing
- Covered swimming pools
- Agricultural greenhouses



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Colors

Structure	Standard Colors						Multi-Layered		Solar Smart™ Selective Solar Control Technology				
	Clear	Bronze	White Opal	White Diffuser	Green**	Blue**	Bronze/Opal	Solar Guard (Solar Control/Opal)	Solar Ice	Solar Control*	CL	SLT	Smart Green
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 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 **Blue, Green and Solar Control sheets are made to order only. **For BBA product specifications, please contact your UK agent or refer to BBA website.

Dimensions

Structure	Thickness (mm)	Area Weight (Kg/m ²)	U-Value (W/m ² °K)	Width (mm) (*USA Only)											
				980	1050	1200	1220*	1250	1600	1800	1830	2085	2090	2095	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	2.9	✓	✓	✓	✓					✓			✓
Triple Wall	8	1.7	3.0									✓			✓
	10	2.0	2.7									✓			✓
	16	2.5	2.3	✓	✓	✓	✓	✓	✓	✓	✓				✓
	16	2.5	2.1	✓	✓		✓	✓	✓	✓	✓				✓
	25	3.0	1.7	✓	✓		✓	✓	✓	✓	✓				✓
X-Lite	32	3.2	1.6	✓	✓		✓	✓	✓	✓	✓				✓
	35	3.5	1.5	✓	✓			✓	✓	✓	✓				✓
	40	4.1	1.4						✓	✓					✓
	20	2.8	1.85									✓			
	25	3.4	1.6										✓		
V-Structure	32	3.6	1.5											✓	
	35	3.8	1.45											✓	
	40	4.0	1.35						✓	✓				✓	

*Other structures and dimensions are available upon request. Please contact your Palram distributor for more details.

SUNLITE® Product Range

Product	Description
SUNLITE®	Standard 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	With anti-condensation, for greenhouses.
SUNLITE® Solar Control	Solar metallic reflective heat blocking sheet.
SUNLITE® SLT	Heat blocking and anti-condensation for garden centers.
SUNLITE® CL	Heat blocking sheet for architectural applications
SUNLITE® Smart	See-through sheet with advanced heat-blocking.

Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1.2
Heat deflection temperature (HDT)	D-648	Load: 1.82 MP	°C	135
Service Temperature - Short term			°C	-50 to +120
Service Temperature - Long term			°C	-50 to +100
Coefficient of linear thermal expansion	D-696		mm/mm °C	6.5x10 ⁻⁵
Tensile strength at yield	D-638	10 mm/min	MPa	62
Elongation at break	D-638	10 mm/min	%	>90
Impact falling dart	ISO 6603/1		J	40-400
Practical thermal expansion/contraction			mm/m	3

* ASTM except where noted otherwise.

Flammability

Method	Classification*	Method	Classification*	Method	Classification*	Method	Classification*
BS 476/7	Class 1	ASTM D-635	CC-1 (SUNLITE® SL)	EN 13501	B, s1, d0	ASTM E-84	Class A

* Depends on sheet type. For more information please contact your Palram distributor.



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