



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

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® FR	Fire retardant, with better flammability ratings
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.



www.palram.com



Colors*

Structure	Standard Colors						Multi-Layered		Solar Smart™ Selective Solar Control Technology				LT = Light Transmission ST = Solar Transmission	
	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%	60%	35%	30%				30%				
Twin wall 8mm	80%	35%	35%	55%	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%	25%	20%	10%						18%				
V-Structure 25mm	62%			30%										
V-Structure 32mm	61%	20%		20%										
V-Structure 35mm	60%													
V-Structure 40mm	58%													
X-Lite 20mm	60%	25%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 25mm	60%	25%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 32mm	58%	20%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 35mm	57%	20%	15%				10%	5%	20%	20%	20%/16%		42%/35%	
X-Lite 40mm	57%	20%	15%							20%				
7 Walls 10mm	64%	29%		45%										
7 Walls 16mm	64%	29%		38%										
7 Walls 20mm	62%	29%		38%										
7 Walls 25mm	60%	22%		38%										

*Light transmission values adhere to ASTM D-1003. **Blue, Green and Solar Control are made to order only.

Dimensions

Structure	Thickness (mm)	Area Weight (Kg/m ²)	U-Value (W/m ² ·°K)	Width (mm) (*USA Only)												
				700	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		✓	✓	✓	✓					✓			✓
Triple Wall	10	1.7	2.9		✓	✓	✓	✓					✓			✓
	8	1.7	3.0										✓			✓
	10	2.0	2.7										✓			✓
	16	2.7	2.3		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
X-Lite	16	2.5	2.1		✓	✓		✓	✓	✓	✓					✓
	20	2.8	1.85		✓	✓		✓	✓	✓	✓					✓
	25	3.0	1.7		✓	✓		✓	✓	✓	✓					✓
	32	3.2	1.6		✓	✓		✓	✓	✓	✓					✓
	35	3.5	1.5		✓	✓		✓	✓	✓	✓					✓
V-Structure	40	4.1	1.4					✓	✓	✓	✓					✓
	20	2.8	1.85										✓			
	25	3.4	1.6											✓		
	32	3.6	1.5												✓	
	35	3.8	1.45													✓
7 Walls	40	4.0	1.35							✓	✓					✓
	10**	1.9	2.3		✓	✓	✓	✓								✓
	16	2.55	1.75		✓	✓	✓	✓								✓
	20	2.9	1.55		✓	✓	✓	✓								✓
	25	3.4	1.39		✓	✓	✓	✓								✓

*Other structures, dimensions and weights are available upon request. Please contact your Palram distributor for more details. **Width of 7 Wall 10mm is 2096mm instead of 2100mm.

Typical Physical Properties

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

Flammability

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

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



PALRAM H.Q.
Tel: +972 4 8459900
Fax: +972 4 8444012
palram@palram.com

PALRAM EUROPE LTD.
Tel: +44 1302 380777
Fax: +44 1302 380778
sales.europe@palram.com

PALRAM AMERICAS
Tel: 610 2859918
Fax: 610 2859928
palramamericas@palram.com



61294 - 05.2017

In as much as Palram Industries has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Palram Industries patent covering such use or as recommendations for use of such materials in the infringement of any patent. Palram Industries or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development you are advised to check with your local Palram Industries supplier to ensure that you have obtained the most up to date information.

©1998 Palram Industries Ltd. | SUNLITE is a registered trademark of Palram Industries Ltd.

