



SUNLITE®

Multiwall Polycarbonate Sheet



Glazing



Construction



DIY



Advertising



Agriculture

► Introduction

SUNLITE's cellular polycarbonate structure yields a lightweight sheet with high impact strength and superior thermal insulation. Its high light transmission makes SUNLITE ideal for varied roofing, walling, 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 & glazing
- Skylights and sidelights
- Conservatories
- Covered walkways
- Displays, signage and decorations
- Industrial roofing and glazing
- Residential roofing and glazing
- Covered swimming pools
- Agricultural greenhouses



► 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 (Solar Control/Opal)	Solar Metallic Reflective		Infra-Red Reflective		Selective See Through	
									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.

► Standard 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	3.0	✓	✓	✓	✓					✓			✓
Triple Wall	8	1.7	2.9									✓			✓
	10	2.0	2.7									✓			✓
	16	2.7	2.3	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
	16	2.6	2.1	✓	✓		✓	✓	✓	✓	✓	✓			✓
X-Lite	25	3.4	1.7	✓	✓		✓	✓	✓	✓	✓	✓			✓
	32	3.7	1.6	✓	✓		✓	✓	✓	✓	✓	✓			✓
	35	3.9	1.5	✓	✓		✓	✓	✓	✓	✓	✓			✓
	40	4.1	1.4												✓
V-Structure	20	2.8	1.85										✓		
	25	3.4	1.6											✓	
	32	3.6	1.6												✓
	35	3.6	1.45												✓
	40	4.0	1.35												✓

► 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 creates a cool shaded space. For architectural applications.
SUNLITE® SLT	Diffused white reflective top layer blocks heat and creates a cool shaded space. For greenhouses & garden centers, with optional anti-condensation.
SUNLITE® Smart	See-through sheet with advanced heat-blocking.

Inasmuch 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.

Europe
UK
Israel
USA
Australia
Far East



EUROPE

PALRAM EUROPE LTD.

Tel: +44-1302-380776

Fax: +44-1302-380788

sales.europe@palram.com

www.palram.com

PALRAM UK

Tel: +44-1302-380738

Fax: +44-1302-380739

sales.uk@palram.com

ISRAEL

PALRAM ISRAEL

Tel: +972-4-8459900

Fax: +972-4-8459980

palram@palram.com

www.palram.co.il

USA

PALRAM AMERICAS

Tel: +610-2859918

Fax: +610-2859928

palramamericas@palram.com

www.palramamericas.com

► Typical Physical Properties

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

*Classifications depend on sheet type and thickness. For more information please refer to your SUNLITE distributor.

