



# SUNLITE®

Multiwall Polycarbonate Sheet



AGRICULTURE



CONSTRUCTION



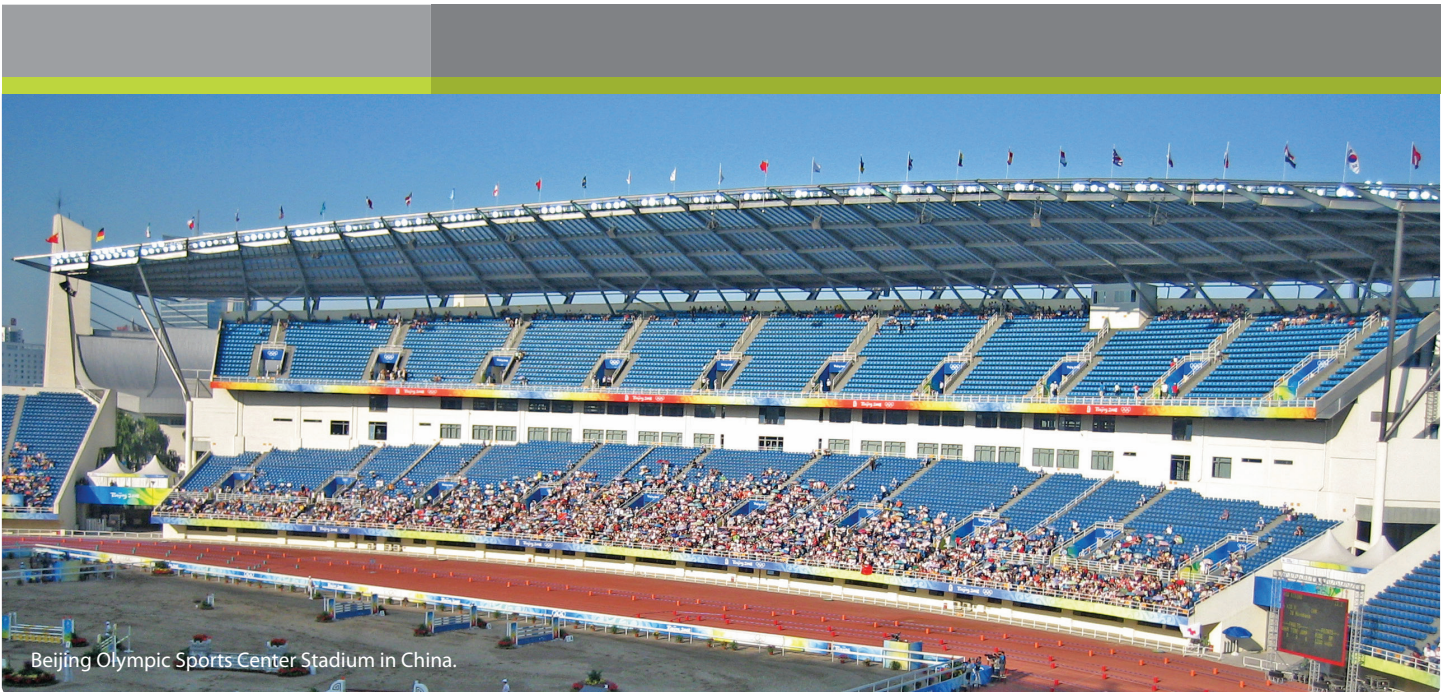
DIY



ADVERTISING



ARCHITECTURAL



Beijing Olympic Sports Center Stadium in China.

## 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 various types of 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 and displays.

[www.PalramAmericas.com](http://www.PalramAmericas.com)

## 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



## Light Transmission\* (LT) and Solar Heat Gain Coefficient (SHGC)\*

Structure	Standard Colors												Multi-Layered															
	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			
	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC	LT%	SHGC		
Twin wall 4mm	82%	0.83	35%	0.48	30%	0.30			35%	0.54	30%	0.71						30%										
Twin wall 4.5mm	82%		35%		30%				35%		30%							30%										
Twin wall 6mm	80%	0.82	35%	0.55	20%	0.24		0.24	35%	0.51	30%	0.66					30%	0.41	30%	0.41								
Twin wall 8mm	80%	0.81	35%	0.47	18%/35%	0.30/0.35		0.35	35%		30%	0.67					0.39	25%	0.36		45%	34	60%	0.55				
Twin wall 10mm	79%	0.81	35%	0.55	30%	0.40			35%	0.59	30%	0.68					0.35	25%	0.36			60%						
Triple wall 8mm	76%		35%		48%				35%		30%							25%										
Triple wall 10mm	76%		35%		48%				35%		30%							25%										
Triple wall 16mm	76%	0.77	35%	0.58			48%	0.53	35%		30%	0.66					0.35	25%	0.36									
X-Lite 16mm	60%	0.61	25%	0.49		0.40	38%		35%	0.49		0.51					0.29	18%	0.25		30%	25						
V-Structure 20mm	63%																											
X-Lite 25mm	60%	0.65	25%	0.42	15%	0.32					10%	0.22	5%	0.22	20%					20%	16			42%	35			
X-Lite 32mm	58%	0.66	20%	0.42	15%						10%	0.30	5%	0.22	20%					20%	16			42%	35			
X-Lite 35mm	57%	0.59	20%	0.36	15%						10%	0.30	5%	0.22	20%					20%	16			42%	35			
X-Lite 40mm	57%	0.52	20%	0.36	15%																							

\*ASTM D-1003 \*\*Blue, Green and Solar Control sheets are produced per order.

## Dimensions

Structure	Thickness (mm)	Area Weight (Kg/m <sup>2</sup> )	U-Value (W/m <sup>2</sup> °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	2.7	2.3	✓	✓	✓	✓	✓	✓	✓	✓				✓
	16	2.5	2.1	✓	✓		✓	✓	✓	✓	✓				✓
	25	3.4	1.7	✓	✓		✓	✓	✓	✓	✓				✓
X-Lite	32	3.7	1.6	✓	✓		✓	✓	✓	✓	✓				✓
	35	3.9	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					✓	✓						✓

## 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.

## Regulatory Code Compliance Certification

Organization	Standard	Classification*
ICC (International Code Council)	IBC-2006 (Light transmitting plastic)	ESR-1893
NRC-CNRC	Canadian NBC 2010 (canopy covering)	CCMC Evaluation Report 13450-R
Flammability Related (Product Specific)		
ASTM	D-635	CC-1
ASTM	E-84	Class A

\*Depends on thickness

## Physical Properties

For detailed information on SUNLITE physical properties please visit: [www.PalramAmericas.com/Sunlite](http://www.PalramAmericas.com/Sunlite).