

Profiles

Colors

Transparent: Clear, Solar Grey, Bronze, Red, Blue, Green, Breeze.

Translucent: Yellow, Red, White Opal, White Diffuser, Solar Control, Solar Ice, Solar Olympic.

Opaque: Dark Green, Red Brick, Black, Dark Blue, Cream, Light Grey, Dark Grey, Brown, Off White.

Dimensions

Width:

1250x2050mm (49x81in.)
1220x2440mm (31x96in.),
2050x3050mm (81x120in.)

Thickness:

1-12mm / 0.059-0.472in.

Product Range

PALTUF™ / General purpose (Indoor use)

PALSUN / UV protected on one side

PALSUN® UV2 / UV Protected on both sides

PALSUN® FR / Fire retardant

PALSUN® Matte / Anti-glare finish
PALSUN® Solar Control / Metallic reflective

PALSUN® Breeze / Transparent reflective

PALSUN® LB / Outdoor light-box applications



Flammability

	Standard	*Classification
PALSUN®	EN13501	B, s1, d0
	BS 476/7	Class 1
	NSP 92501, 4	M2
	UL Classified	V2 (File e221255)
	ASTM D-635	CC1
PALSUN® FR	UL 94	V0 (File e221255)

PALSUN® VS Glass

	PALSUN	Glass
Design Life	40 Years	Untill breakage
Weight (Density)	Light (1.2 g/cm ²)	Heavy (2.8 g/cm ²)
Impact Resistance	Excellent (200 times more than glass)	Fair
Wind Resistance	Good	Good
Installation / Work Safety	Excellent (Safe - Virtually Unbreakable)	Poor (Dangerous)
% Light Transmission	90%	92%
Thermal Insulation	Good (Considerable better than glass)	Poor

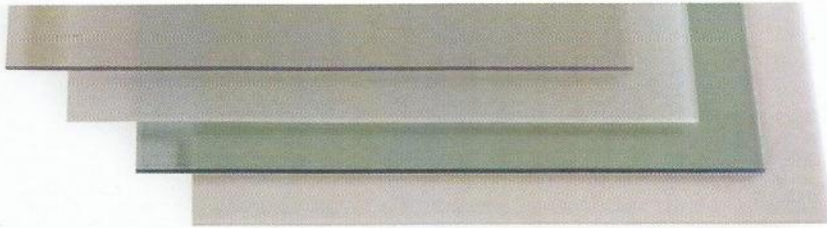
Typical Physical Properties

Property	*Method	Conditions	Units	Value
Density	D-792		g/cm ³	1.2
Heat Deflection Temperature(D-648)		Load: 1.82 MPa	°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	0.065
Thermal Conductivity (C-177)			W/m K	0.21
Tensile Strength at Yield (D-638)		10 mm/min	MPa	65
Tensile Strength at Break (D-638)		10 mm/min	MPa	60
Elongation at yield	D-638	10 mm/min	%	6
Elongation at break	D-638	10 mm/min	%	>90
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,300
Flexural strength	D-790	1.3 mm/min	MPa	100
Flexural modulus	D-790	1.3 mm/min	MPa	2,600
Impact Falling Weight(ISO 6603/1 E50)		3mm sheet	J	158
Rockwell Hardness (D-785)			R Scale	125R
Light Transmission (D-1003)			%	90
Haze (D-1003)			%	>0.5
Yellowness Index (D-313)			YI	>1

* ASTM method except where noted otherwise

PALSUN®

FLAT SOLID POLYCARBONATE SHEET



Overview

PALSUN combines superior impact resistance and clarity, making it the material of choice for many demanding applications. It is virtually unbreakable, yet it is transparent as glass at less than half its weight.

PALSUN can be cold bent and easily fabricated and formed, making it ideal for roofing, skylights, architectural roofing and glazing.

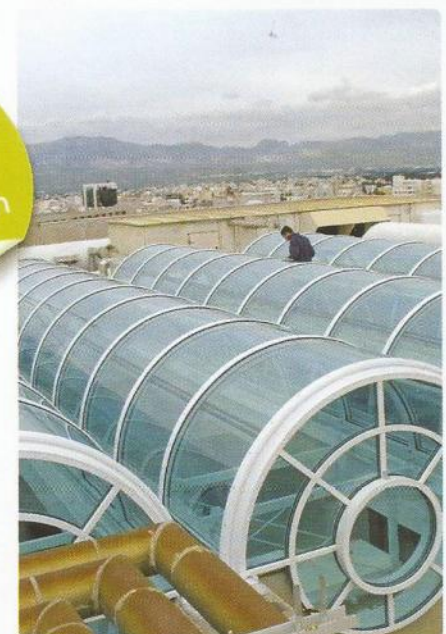
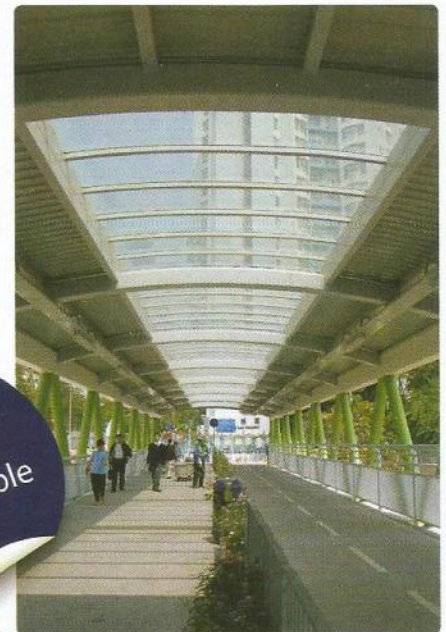
Clear, translucent and opaque PALSUN sheets are also ideal as machine guards, sound barriers, anti-vandal and safety glazing. PALSUN Diffuser and LB sheets are extensively used in light boxes.

Main Benefits

- High impact resistance - Virtually unbreakable
- High clarity and light transmission
- Weather and UV resistant
- Wide service temperature range
- Blocks harmful UV radiation
- Good acoustical insulation
- Lightweight
- Easy to handle and install
- Versatile, formable, and machinable

Typical Applications

- Transparent acoustic barriers
- Sport venues
- Skylights
- Shopping centers
- Covered walkways
- Sun rooms and conservatories
- Pergolas and covered patios
- Thermoformed, vacuum formed, bent and fabricated items



200 times more impact strength as compared to Glass
Virtually Unbreakable

Upto 90% Light Transmission

Less than Half the Weight of Glass
Lightweight