



PALSUN[®]

Flat Solid Polycarbonate Sheet



Overview

PALSUN combines superior impact resistance and clarity, making it the material of choice for demanding applications.

PALSUN glazing is practically unbreakable, with glass-like transparency, at less than half the weight of glass. It can be curved to form arched architecture, facades, roofing, or barrel vault skylights.

PALSUN impact resistant sheets are ideal as machine guards, and for safety & security glazing.

Thermoforming PALSUN is ideal for creating lighting fixtures, light boxes, and more.

Available with BioBase™ Bio-Attributed Feedstock



www.palram.com

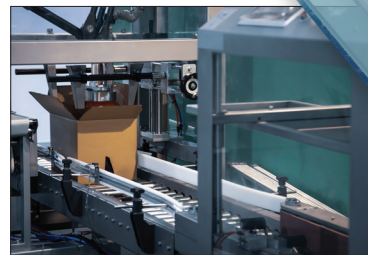
Main Benefits

- High impact resistance
- High clarity and light transmission
- Weather & UV resistance
- Wide service temperature range
- Lightweight
- Versatile, formable, and machineable
- A variety of color options and surface features
- A range of optical specifications
- Selective solar transmission options
- 10 Year warranty

Typical Applications



Construction & Architecture



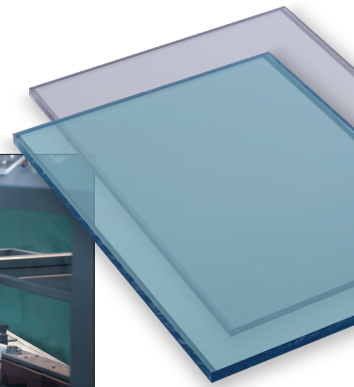
Machine Guards



Roofing & Glazing



Lighting Fixtures



Standard Dimensions

Product	Thickness	Width x Length
PALSUN® / PALTUF™ Sheets	1mm-12mm	1220x2440 1250x2050 2050x3050
	13mm – 15mm	2050x3050
	18mm	2450x3050
PALSUN® CS Coil	0.7mm-1.5mm	600 - 1500mm wide
	3mm-6mm	2642mm wide

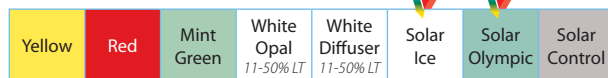
Non-standard dimensions are available upon request. Contact your local Palram representative for more information.

Colors

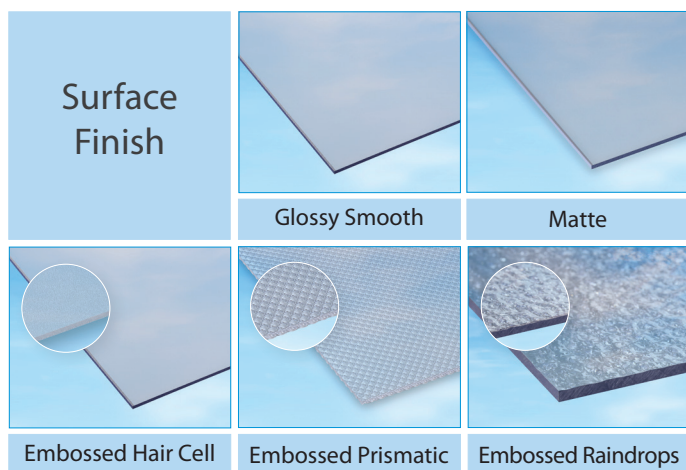
Transparent



Translucent



Opaque



PALSUN® Product Range

Product	Description
PALTUF™	General purpose flat solid polycarbonate sheet for interior use.
PALTUF™ FR	Fire retardant flat solid polycarbonate sheet for interior use.
PALSUN®	One side UV protected flat solid polycarbonate sheet.
PALSUN® UV2	Two side UV protected flat solid polycarbonate sheet.
PALSUN® FR	Fire retardant, UV protected flat solid polycarbonate sheet.
PALSUN® LED	Diffused, low gloss, UV protected polycarbonate sheet.
PALSUN® SolarSmart™	Solid polycarbonate sheet with selective solar control technology
PALGARD™	One/Two side abrasion resistant polycarbonate sheet
PALSUN® CS	Coil stock polycarbonate

Typical Physical Properties

Property	Standard	Conditions	Units	Value
Density	ASTM D792		g/cm ³	1.2
Heat Deflection Temperature	ASTM D648	Load: 1.82 MP	°C	130
Service Temperature Range			°C	-40 to 120
Coefficient of Linear Thermal Expansion	ASTM D696		cm/cm °C	6.5 X 10 ⁻⁵
Thermal Conductivity	ASTM C177		W/m K	0.21
Elongation at Yield	ASTM D638	10 mm/min.	%	6
Elongation at Break	ASTM D638	10 mm/min.	%	>90
Tensile Modulus of Elasticity	ASTM D638	1 mm/min.	MPa	1700
Flexural Strength	ASTM D790	1.3 mm/min.	MPa	87
Flexural Modulus	ASTM D790	1.3 mm/min.	MPa	2400
Impact Falling Weight (E50)	ISO 6603/1	3mm sheet	J	130
Rockwell Hardness	ASTM D785		R Scale	80
Tensile Strength at Yield	ASTM D638	10 mm/min.	MPa	65
Tensile Strength at Break	ASTM D638	10 mm/min.	MPa	60
Elongation at Yield	ASTM D638	10 mm/min.	%	5.5
Elongation at Break	ASTM D638	10 mm/min.	%	80
Tensile Modulus of Elasticity	ASTM D638	1 mm/min.	MPa	2300
Flexural Strength	ASTM D790	1.3 mm/min.	MPa	95
Flexural Modulus	ASTM D790	1.3 mm/min.	MPa	2300
Impact Falling Weight	ISO 6603/1	E50	J	130

Flammability

Product	Standard	Classification
PALSUN® / PALTUF™	EN13501	B, s1, d0
	UL 94	V0 - V2
	ASTM-E84	Class A
	BS 476/7	Class 1Y- Class 2Y
PALSUN® FR / PALTUF™ FR	UL 94	V0

Products may be classified differently based on their thickness and color. Contact your local Palram representative for more information.



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