



# PALSUN<sup>®</sup>

A Family of Flat Solid Polycarbonate Sheets

## Overview

Often used in place of glass, PALSUN offers glass-like clarity at less than half the weight of glass, with unmatched impact resistance. PALSUN is available in a range of options from clear to shaded—in a variety of light transmissions to fit any project.

Durable and easily formable, PALSUN is often used as vehicle shields, safety & security glazing, architectural roofing, machine guards, sound barriers, and many other demanding, industrial applications. High impact strength, machinability, and excellent ink adhesion make PALSUN uniquely suited for digital prints, thermoformed signs, and backlit and illuminated signage.



High impact resistance, virtually unbreakable



High clarity and light transmission



Wide service temperature range



Good acoustical insulation



Lightweight



Easy to handle and install



Versatile, formable, and machinable



UV and Specialty Sheets offer exceptional weather & UV resistance

## Typical Applications

### BASIC SERIES (No UV)

- Interior safety glazing & machine guards
- Fabricated parts
- POP Displays

### UV SERIES (With UV Protection)

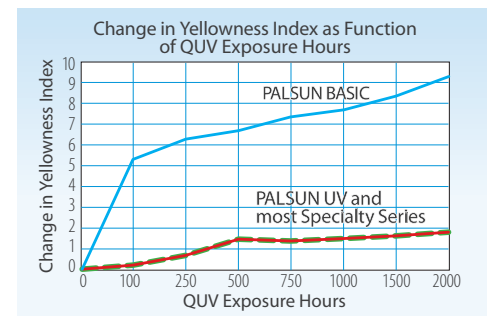
- Exterior flat & thermoformed sign faces
- Skylights and architectural glazing
- Outdoor enclosures such as bus stops

### SPECIALTY SHEET SERIES

(Generally with UV & Abrasion Resistance)

- Windshields for recreational vehicles, security glazing and industrial applications where fire ratings are crucial

For additional protection in these applications, consider PALGARD<sup>®</sup>, a PALSUN polycarbonate substrate with an abrasion resistant coating.



## PALSUN® Product Range

All products shown are flat solid polycarbonate sheet.

Product	Description
PALSUN® Basic™	UV stabilized general purpose polycarbonate sheet
PALSUN® UV1	Co-extruded UV protection on one side for exterior applications
PALSUN® UV2	Co-extruded UV protection on both sides for exterior applications
PALSUN® Embossed*	Embossed surface (E102, prismatic, hair cell)
PALSUN® FR*	Fire retardant, with higher fire resistant rating
PALSUN® Matte*	Matte finish on one side
PALSUN® SG White	High diffusion for sign grade applications
PALSUN® CS	Coil stock on rolls ( <i>Clear and SG White standard</i> )
PALSUN® Foam	Flat foamed polycarbonate sheet, UV protected on one side
PALSUN® Solar Control*	Efficient heat-blocking with metallic appearance
PALSUN® Smart*	See-through sheet with advanced heat-blocking
PALSUN® Basic FR†	Fire retardant, with elevated Relative Thermal Index (RTI) values.
PALSUN® OG	Optical grade sheet
PALGARD®	Abrasion resistant on one or both sides
PALGARD® TG	Transportation grade ( <i>meets specific transportation codes</i> )
PALSHIELD™	Containment and bullet resistant glazing
PALSUN® IR	Clear, Anti-fog, Shade 3 & Shade 5 polycarbonate for face shields

\* With co-extruded UV protection on one or both sides.

† Available in 2mm and 2.36mm for applications without direct UV exposure.

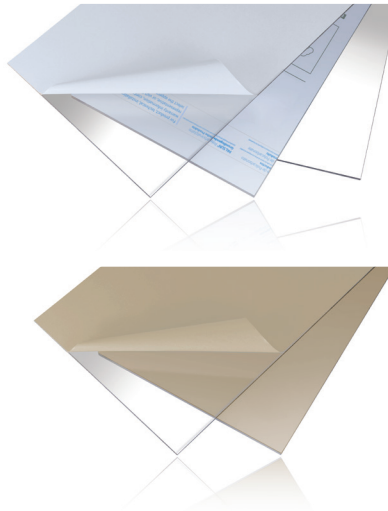
## Colors



\* Call your Palram representative to learn more about custom colors, custom light transmissions and MOQ's.

## Protective Masking

Depending on product selected, clear, white or printed plastic masking protects Palsun sheet during storage and transportation. Masking must be removed from both sides immediately after installation.



For fabrication projects, try our FG (fabrication-grade) masking.

## Regulatory Code Compliance Certification

The information listed below is product-specific.

Organization	Standard	Classification
UL	SAM File #E336663	Rigid Sign Face Material
UL	UL972	Pass
Miami Dade County	Florida Building Code (FBC)	Approved Plastic
ANSI	Z97.1-09	Impact and Weathering
	Z87.1-15	(Impact and Optical)*
ICC	IBC Section 2606.4	Light Trans. Plastic
	IBC Section 803.1	Interior Finish
CCMC	NBC 2015 (Canopy Covering)	Compliant (CCMC Eval. Rep. 13450-R)
Flammability Related Compliance Certifications		
FMVSS	302	Pass
UL	UL 94 - File E221255	V-2**
	D-635	CC1 (AEB <1")
ASTM	E-84	Class A***
	D-2843	Smoke Density <75
FAA	FAR 25.853(a)	Pass****
ASTM	D-2863-87	L.O.I. = 30
UL	UL 94 - File E221255	V-0
		Ignitability Index = 9
AU	1530.3-1982	Spread of Flame Index = 8
		Heat Evolved Index = 10
		Smoke Developed Index = 8

\* .040" only

\*\* .314" and thicker gauges = V0

\*\*\* 1.5mm thru 3mm Palsun Basic only

\*\*\*\* .060" only

## Typical Stock Sheet Sizes

Typical Width (in.) x Length (in.)	Thickness (in.)	Custom* Width (in.) x Length (in.)
48" x 96", 48" x 120"	.03" to .50"	Run to size
60" x 96", 60" x 120"		
72" x 96"		
80" x 120"		

\* Call to discuss minimum order requirements.

## Physical Properties

For detailed information on PALSUN® physical properties please visit: [palram.com/us/palsun](http://palram.com/us/palsun).



### PALRAM AMERICAS

9735 Commerce Circle, Kutztown, PA, 19530 USA  
800.999.9459 • [ContactUs.USA@palram.com](mailto:ContactUs.USA@palram.com)  
[palram.com/us](http://palram.com/us)



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