Overview

The PALSUN family of flat solid polycarbonate product includes: Basic, UV-Protected, and Specialty Sheets. Palsun offers glass-like clarity at less than half the weight of glass, combined with unmatched impact resistance. PALSUN can be cold bent, fabricated or formed, making it ideal for applications such as sign faces, barrel vault roofing, roof (sky) lights, architectural roofing and glazing. Clear, translucent or opaque, PALSUN sheets are also ideal as machine guards, sound barriers, and safety glazing.

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Main Benefits

- 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 Sheet Series products offer exceptional weather and UV resistance

Typical Applications

- **BASIC SERIES (NO UV)**
  - Interior safety glazing & machine guards
  - Fabricated parts
  - POP Displays
- **UV SERIES (W/UV PROTECTION)**
  - Exterior flat & thermoformed sign faces
  - Skylights and architectural glazing
  - Outdoor enclosures such as bus stops
- **SPECIALTY SHEET SERIES (GENERALLY W/UV)**
  - Windshields for golf carts and low speed vehicles
  - Glazing in boats, trains, busses, military vehicles, and planes

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

![Change in Yellowness Index as Function of QUV Exposure Hours](image)
PALSUN® Family of Products

PALSUN® Product Range
All products shown are flat solid polycarbonate sheet.

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

* With co-extruded UV protection on one or both sides
  ** Available in 2mm and 2.36mm for applications without direct UV exposure.

Colors
- Transparent
  - Clear
  - Solar Grey
  - Bronze
  - Red
  - Blue
  - Green
  - Smart Green

- Translucent
  - Yellow
  - Red
  - Mint Green
  - White Opal
  - White Diffuser
  - PALSUN® SG
  - Solar Ice
  - Solar Olympic
  - Solar Control

- Opaque
  - Dark Green
  - Red Brick
  - Black
  - Dark Blue
  - Cream
  - Light Grey
  - Light Grey Opal
  - Dark Grey
  - Brown
  - Off White

* Significant minimum order requirements may apply for some colors listed. Custom colors available upon request; please contact your Palram representative or agent for additional details and minimums.

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.

Regulatory Code Compliance Certification
The information listed below is product-specific.

<table>
<thead>
<tr>
<th>Organization</th>
<th>Standard</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL</td>
<td>SAM File #E336663</td>
<td>Rigid Sign Face Material</td>
</tr>
<tr>
<td>UL</td>
<td>UL972</td>
<td>Pass</td>
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<tr>
<td>Miami Dade County</td>
<td>NOA # 15-120707</td>
<td>Approved Plastic</td>
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<tr>
<td>ANSI</td>
<td>Z971-09</td>
<td>Impact and Weathering</td>
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<tr>
<td>ICC</td>
<td>Z871-03</td>
<td>Pass (Impact)</td>
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<tr>
<td>IBC Section 2606.4</td>
<td>Light Trans. Plastic</td>
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<tr>
<td>IBC Section 803.1</td>
<td>Interior Finish</td>
<td></td>
</tr>
<tr>
<td>CCMC NBC 2010 (Canopy Covering)</td>
<td>Compliant (CCMC Eval. Rep. 13450-R)</td>
<td></td>
</tr>
</tbody>
</table>

Flammability Related Compliance Certifications
- UL CAN / ULCS102.2-07 Class A*
- UL File e221255 V-2 D-635 CCI (AEB <1")
- ASTM E-84 Class B**
- FAA FAR 25.853(a) Pass***
- ASTM D-2863-87 L.O.I. = 30
- UL UL 94 V-0 Ignitability Index = 9
- AU 1530.3-1982 Spread of Flame Index = 8
- Heat Evolved Index = 10
- Smoke Developed Index = 8

* 17” thru 50”
** .040 [1mm] thickness available with Class A rating.
*** Depends on thickness.

Dimensions

<table>
<thead>
<tr>
<th>Typical Width (in.) x Length (in.)</th>
<th>Thickness (in.)</th>
<th>Custom* Width (in.) x Length (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>48” x 96” - all thicknesses</td>
<td>.03” to .50”</td>
<td>Run to size</td>
</tr>
<tr>
<td>60” x 96” - all thicknesses</td>
<td>.03” to .67”</td>
<td>80” x 120” - all thicknesses</td>
</tr>
</tbody>
</table>

* Call to discuss minimum order requirements.

Physical Properties
For detailed information on PALSUN® physical properties please visit: www.PalramAmericas.com/Palsun.