









Corrugated Polycarbonate Sheet



Overview

Main Benefits

- Impact resistant: virtually unbreakable
- Transparent: up to 90% light transmission
- Weather and UV resistant
- Wide service temperature range
- UV blocking better than sunscreens
- Lightweight
- Good flammability rating does not emit toxic gases when burning
- Warranted against yellowing, loss of light transmission and hail penetration
- Easy to work with and install

Typical Applications

Construction and Industry

- Skylights, rooflights and sidelights
- Architectural structures
- Industrial facilities
- Public buildings
- Canopies and shelters for car parks, swimming pools, walkways etc.
- Partitions

Do-It-Yourself (DIY)

- Skylights
- Canopies and awnings
- Balconies and verandas
- Carports or garages (parking shelters)
- Domestic swimming pools
- Gazebos or pergolas
- Sunrooms
- Outdoor play or family areas
- Hobby greenhouses

Agriculture

- Commercial greenhouses
- Garden centers



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Colors

| Transparent | Clear, Grey, Bronze, Sky Blue, Transparent Green, Smart Grey |
|-------------|---|
| Translucent | White Opal, White Diffuser, Solar Control, Solar Ice, Mist Green, Smooth Cream |
| Opaque | White, Green, Blue, Red Brick |

^{*}Custom colors are available upon request, subject to minimum quantity.

Surface Finishes

SUNTUF is offered with smooth finish on both sides as standard. Embossed and Hair-Cell finishes on one side are optional.



Profile Availability

SUNTUF can ideally integrate with almost any roof type, using Palram's proprietary

MetalMatch™ profile matching technology, which allows it to be matched to existing or new corrugation profiles. SUNTUF is also available in over 350 existing profiles, which are listed in the SUNTUF® Profile Catalog. For more details please refer to the SUNTUF Rooflights international web page.

SUNTUF® Product Range

| Product | Description | |
|-----------------------|---|--|
| SUNTUF® | Corrugated polycarbonate sheet with UV protection on one side | |
| SUNTUF® UV2 | With UV protection on both sides | |
| SUNTUF® Embossed | Embossed or Hair Cell finish on one sides | |
| SUNTUF® Plus | For greenhouse covering, with anti-condensation treatment | |
| SUNTUF® Solar Control | With effective heat blocking technology | |
| SUNTUF® Smart | Advanced heat blocking with high clarity | |

Typical Physical Properties

| Property | Method* | Conditions | Units | Value |
|--------------------------------------|-------------|----------------|-------------|------------------------|
| Density | D-792 | | g/cm³ | 1,2 |
| Heat deflection temperature (H.D.T) | D-648 | Load: 1.82 MPa | °C | 135 |
| Service Temperature Range (Short to | | °C | -50 to +120 | |
| Service Temperature Range (Long to | | °C | -50 to +100 | |
| Coefficient of linear thermal expans | ion D-696 | | cm/cm°C | 6.5 x 10 ⁻⁵ |
| Thermal conductivity | C-177 | | W/m K | 0.21 |
| Tensile strength at yield | D-638 | 10 mm/min | MPa | 62 |
| Tensile strength at break | D-638 | 1 mm/min | MPa | 65 |
| Elongation at yield | D-638 | 10 mm/min | % | 6 |
| Elongation at break | D-638 | 10 mm/min | % | >70 |
| Tensile modulus of elasticity | D-638 | 1 mm/min | MPa | 2,300 |
| Flexural strength mechanical | D-790 | 1 mm/min | MPa | 93 |
| Flexural modulus | D-790 | 1.3 mm/min | MPa | 1,890 |
| Impact falling weight (ISO 6 | 6603/1 E50) | 0.8 mm sheet | J | 50 |
| Rockwell hardness | D-785 | | R Scale | 118 |
| Light transmission | D-1003 | Clear sheet | % | 90% |
| Haze | D-1003 | Clear sheet | % | <0.5 |
| Yellowness index | D-1003 | Clear sheet | YI | <1 |

^{*} ASTM method except where noted otherwise

Flammability

SUNTUF complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

| Standard | Classification* | | |
|--|--------------------|--|--|
| EN13501 | B, s1, d0 | | |
| UL 723 | 4.7, 47.0 | | |
| Los Angeles Building Code | CC2 (Section 2603) | | |
| UNI 9177, 9176 | Class 2 | | |
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^{*} For more detailed information please contact your Palram distributor.

UV Blocking and Resistance

SUNTUF transmits radiation selectively. It effectively blocks harmful UV radiation. In addition, SUNTUF withstands the adverse effects of UV radiation.



