# SUNTUF® BH

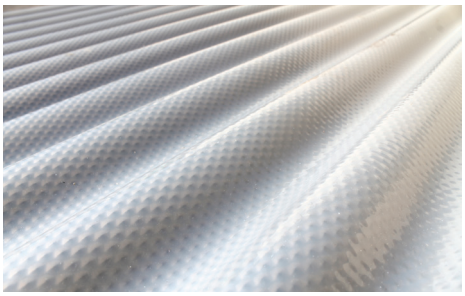
Embossed Corrugated Polycarbonate Sheet

## Special technology **for better hail resistance** with unique solar colors only from Palram

### Main Benefits

- UV Protection
- Hail resistance - 50% more than regular corrugated sheet
- 100% diffused light
- High wind and snow load resistance
- Extended warranty

# SUNTUF® BH

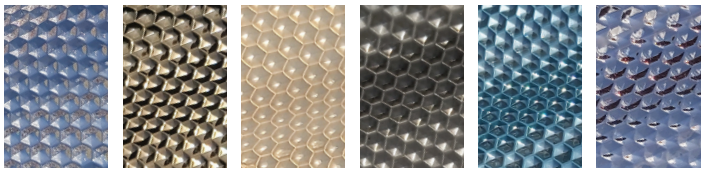


## Typical Applications

- Pergolas and gazebos
- Patio enclosures
- Sunrooms
- Carports
- Covered walkways
- Canopies and overhangs

## Product Availability

| | |
|---|---|
| Colors | Clear, Bronze, Solar Ice, Solar Control,Solar Olympic, Grey |
| Textures | Prismatic-honeycomb |
| Thickness | 2.8 mm |
| Width | 1045 mm |
| Profile | 76/18 Iron/Sinus |



| Clear | Bronze | Solar Ice | Solar Control | Solar Olympic | Grey |
|---|---|---|---|---|---|
| 87% Light Transmission | 33% Light Transmission | 25% Light Transmission | 20% Light Transmission | 25% Light Transmission | 60% Light Transmission |

## Typical Physical Properties

| Property | Method* | Conditions | Units | Value |
|---|---|---|---|---|
| Density | D-792 | | $g/cm^3$ | 1,2 |
| Heat deflection temperature (H.D.T) | D-648 | Load: 1.82 MPa | °C | 135 |
| Service Temperature Range (Short term) | | | °C | -50 to +120 |
| Service Temperature Range (Long term) | | | °C | -50 to +100 |
| Coefficient of linear thermal expansion | D-696 | | cm/cm°C | $6.5 \times 10^{-5}$ |
| 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 6603/1 E50) | 2.8 mm sheet | J | 75 |
| 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® BH 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 |
|---|---|
| AS/NZS 1530.3 | Approved |
| EN13501 | B, s1, d0 |
| NFP 92501, 4, 5 | M-1 |
| DIN 4102 | B-1 |
| UL 723 | 4.7, 47.0 |
| Los Angeles Building Code | CC2 (Section 2603) |
| UNI 9177, 9176 | Class 2 |

* For more detailed information please contact your Palram distributor.

## Load / Span Data

| Load ($kg/m^2$) | Maximum Roof Span (mm) 2.8 mm Thickness |
|---|---|
| 50 | 1400 |
| 75 | 1300 |
| 100 | 1200 |
| 125 | 1175 |
| 150 | 1150 |
| 175 | 1125 |
| 200 | 1100 |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