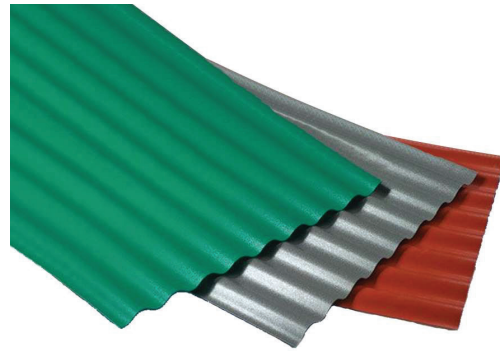


# Suntop Corrugated Polycarbonate

## Foam Corrugated Polycarbonate Roofing System



### Description and Overview

The Suntop® polycarbonate roofing system consists of thick corrugated foamed polycarbonate sheets that are durable enough for outdoor applications. While most polycarbonate products are generally translucent or transparent, Suntop® is entirely opaque, one of a few unique characteristics that allow it to block all light transmission.

Suntop® is composed of thick foamed polycarbonate but has the advantage of remaining lightweight and easy to handle compared to other corrugated roofing products. Its foam structure gives Suntop® better insulation properties than traditional roofing materials. Suntop® panels provide up to 20 times more impact resistance than similar fiberglass products, making them the best protection available in opaque polycarbonate products.

### Applications and Uses


Opaque Suntop® polycarbonate blocks all UV radiation, making it the perfect candidate for outdoor coverings like canopies and carports. To defend itself from UV radiation, Suntop® comes with a thin co-extruded layer of UV-resistant resins that protect it from degradation. It avoids the yellowing process that occurs over time when exposed to sunlight, which is especially apparent when compared with white polycarbonate roof panels. Suntop® applications include:

- Patio and deck covers
- Pergolas
- Canopies
- Sheds
- Carports

### Properties and Specifications

| Typical Physical Properties      |               |                |                   |             |
|----------------------------------|---------------|----------------|-------------------|-------------|
| Property                         | (ASTM Method) | Conditions     | Units             | Value       |
| Density                          | (D-1505)      |                | g/cm <sup>3</sup> | 0.8- 0.9    |
| Water Absorption                 | (D-570)       | 24 hr. @ 23 °C | %                 | 1.23        |
| Heat Deflection Temperature      | (D-648)       | Load: 1.82 MP  | °C                | 124         |
| Service Temperature - Short Term |               |                | °C                | -50 to +120 |
| Service Temperature - Long Term  |               |                | °C                | -50 to +100 |
| Thermal Conductivity             | (C-177)       |                | W/m K             | 0.113       |
| Tensile Strength at Yield        | (D-638)       | 10 mm /min     | MPa               | 25-30       |
| Tensile Strength at Break        | (D-638)       | 10 mm /min     | MPa               | 25-30       |
| Elongation at Yield              | (D-638)       | 10 mm /min     | %                 | 3-Apr       |
| Modulus of Elasticity            | (D-638)       | 1 mm /min      | MPa               | 1200-1500   |
| Flexural Strength                | (D-790)       | 1 mm /min      | MPa               | 50-60       |
| Flexural Modulus                 | (D-790)       | 1 mm /min      | MPa               | 1600-1800   |
| Fire Resistance                  | (D-635-91)    |                | MPa               | CC1         |

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 **WARNING:** This product can expose you to chemicals, which are known to the State of California to cause cancer, birth defects, and/or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

