Suntop® Corrugated Polycarbonate

Foam Corrugated Polycarbonate Roofing System

Description and Overview

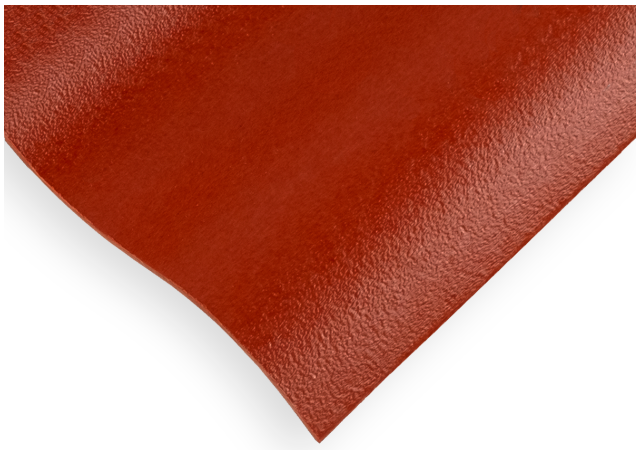
The Suntop® polycarbonate roofing system consists of thick corrugated foamed polycarbonate sheets that are durable enough for outdoor applications. While most polycarbonate products are generally translucent or transparent, Suntop® is entirely opaque, one of a few unique characteristics that allow it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



Suntop® is available in Castle Grey, Sedona Brick, and Rainforest Green colors.
Sheet sizes: .063” x 26” x 96”, .063” x 26” x 144”
Matching ridge caps and wall connectors available.

Properties and Specifications

See table below

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

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Typical Properties

Property	Test Method	Conditions	Units	Value
PHYSICAL				
Density	(D-1505)	-	g/cm^3	0.8 - 0.9
Water Absorption	(D-570)	24 hr. @ 23 °C	%	1.23
Heat Deflection Temperature	-	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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