



Overview

SUNTOP is a foamed, low density polycarbonate sheet that combines impact resistance, low weight and a wide service temperature range to fit any environment.

The opaque SUNTOP is offered in strong colors that create an attractive appearance with the sheet's matte surface. Its low weight makes it easy to handle and ideal for a variety of roofing and siding applications around the house.

Main Benefits

- Resistant to UV radiation
- Lightweight
- Rust free
- Rich, long lasting colors
- A service temperature range spanning all environmental temperatures
- Good thermal insulation
- Environmentally friendly
- User friendly - Easy to install
- Impact resistant

Typical Applications

- Pergolas
- Private Parkings
- Awnings
- Sheds



Colors



*Color samples shown above are closest match.

Profiles and Standard Dimensions

Profile	Designation	Drawing	Thickness (mm)	Width (mm)	Length (mm)
Iron/Sinus	76/18		0.8	600, 900	1.5-11.6
5,6 Waves	177/51		1.0 - 2.0	920	1.5-6.0
American 4.2"	107/27		1.0 - 1.5	1070	1.5-11.6

Typical Physical Properties

Property	(ASTM Method)	Conditions	Units	Value
Density	(D-1505)		g/cm ³	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	%	3-4
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)			CC1

Weather Resistance

SUNTOP sheets perform flawlessly under harsh, extreme climatic conditions. The service temperature range is -50 °C to +100 °C, enabling unlimited use throughout the world.

Resistance to UV Radiation

SUNTOP maintains its physical properties and does not yellow due to co-extruded protection on one side. A full-length printed strip label is attached to the protected side. This side must be installed facing the sun, and the printed strip must be removed immediately after installation.

Thermal Insulation

SUNTOP's foam structure offers better insulation than other traditional roofing materials as indicated in the table below (the lower the thermal conductivity, the better the insulation that the material offers).

Comparison of Thermal Conductivity

Material	Thermal Conductivity (W/mK)
SUNTOP® foamed polycarbonate sheet	0.11
Fiberglas	0.16
Steel sheet	50

Installation Instructions

Installation instructions per profile are available on Palram's global website www.palram.com. Please contact you PALRAM distributor for more information.



PALRAM H.Q.

Tel: +972.4.8459.900
Fax: +972.4.8444.012
palram@palram.com

PALRAM EUROPE LTD.

Tel: +44.1302.380776
Fax: +44.1302.380788
sales.europe@palram.com

PALRAM AMERICAS

Tel: 610.285.9918
Fax: 610.285.9928
palramamericas@palram.com



61328-05.2019

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