



Overview

SUNTUF is the ultimate DIY roofing material, offering durability and a wide color selection in a lightweight sheet that is extremely easy to install.

Clear SUNTUF sheets offer high daylight transmission, while numerous color options offer a variety of shading options for any climate.

Shatter proof Polycarbonate is warranted against hail and snow loads for well over a decade of life service.

The complete UV blocking of SUNTUF is crucial for residential applications and will ensure transmission of healthy light for people.

SUNTUF maintains an attractive appearance with minimum maintenance and will retain its clarity and color due to an integrated UV protection.

www.thepolycarbonatestore.co.uk

Main Benefits

- Lightweight & easy to install
- Hail & impact resistant
- Transparent: up to 90% light transmission
- Weather & UV resistant
- For every budget & application
- Requires minimal maintenance
- Balance shade & daylight
- UV blocking - better than sunscreens
- Wide service temperature range
- Meets the highest fire-retardant standards

Typical Applications

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



Color

Color	LT (%)
Clear	90



Profile and Standard Dimensions

Type	Profile*	Drawing	Thickness (mm)	Width (mm)	Longest Length (m)
Iron/Sinus	76/18		0.8	900	6

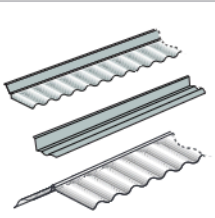

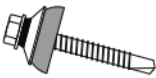
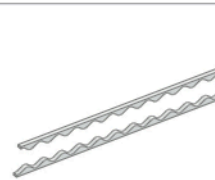
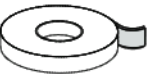

* In addition to the standard profile displayed above, Molan can easily match any metal profile upon request, subject to minimum quantity.

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



Accessories

 Flashing	 Self-taping Screw	 Self-drilling Screw
 Sealing Strips	 Foam Tape	 Butyl sealing Tape

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 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 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

Surface Finishes

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

UV Blocking and Resistance

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

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

* For more detailed information please contact your Palram distributor.