



SUNTUF®

Corrugated Polycarbonate Sheet



Agriculture



DIY



Construction

► Overview

SUNTUF corrugated polycarbonate sheet is an excellent roofing material with powerful physical properties. SUNTUF is favored by professionals for noncorrosive industrial structural roofing and siding, and by home owners for a multitude of DIY applications, due to its high impact strength and wide service temperature range. With its high light transmission, SUNTUF's unlimited range of profiles allow it to integrate into any roofing profile, making it an ideal in-plane rooflight material. SUNTUF is also available in a wide variety of colors.

► Key Benefits

- Impact resistant - virtually unbreakable
- Clear: up to 90% light transmission
- Weather and UV resistant
- Wide service temperature range
- UV screening - better than sunscreens
- Resistant to a wide range of chemicals
- Features and Benefits
- Lightweight
- Good flammability rating - does not emit toxic gasses when burning
- Warranty - SUNTUF comes with a warranty against yellowing, loss of light transmission and hail penetration



► SUNTUF® Product Range

Product	Description
SUNTUF®	Corrugated polycarbonate sheet with UV protection on one side
SUNTUF® UV2	With UV protection on both sides
SUNTUF® Plus	For greenhouse covering, with anti-condensation treatment and UV protection on one or both sides
SUNTUF® Solar Control	With effective heat blocking
SUNTUF® Smart	Advanced heat blocking with high clarity

► Profiles and Standard Dimensions



Type	Profile*	Drawing	Thickness (mm)	Width (mm)	Length (mm)
Mini	32/9		0.8	480, 1040	1.5-6.0
Iron/Sinus	76/18		0.8	660, 860, 900, 1260	1.5-11.6
Greca/Trapeze	76/18		0.8	660, 1064, 1260, 1870	1.5-11.6
Omega	76/15		0.8	1260, 1870	1.5-11.6
5,6 Waves	177/51		1.0 - 2.0	920, 1100	1.5-6.0
American 4.2"	107/27		1.0 - 1.5	1070	1.5-11.6
Trimdek	190/27		0.8 - 1.5	820, 1200	1.5-11.6
Spandek	87.5/24		0.8 - 1.5	754	1.5-11.6
Industrial 0100	250/40		1.0 - 1.5	1063	1.5-11.6
7.2"	183/38		1.0 - 1.5	1217	1.5-11.6

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

► Colors

SUNTUF is available in many standard transparent, translucent and opaque colors listed below. Custom colors are available upon request and subject to a minimum order.

Transparent	Clear, Solar Grey, Bronze, Sky Blue, Trans. Green, Smart Grey
Translucent	White Opal, White Diffuser, Solar Control , Solar Ice, Mist Green, Smooth Cream
Opaque	White, Green, Blue, Red Brick

► UV Blocking and Resistance

SUNTUF transmits radiation selectively. It shield against harmful ultraviolet rays completely. In addition, SUNTUF withstands the detrimental effects of UV radiation.

Inasmuch as PALRAM Industries has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any PALRAM Industries patent covering such use or as recommendations for use of such materials in the infringement of any patent. PALRAM Industries or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development you are advised to check with your local PALRAM Industries supplier to ensure that you have obtained the most up to date information.

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► Typical Applications

Agriculture

- Commercial greenhouses
- Hobby greenhouses
- Garden centers

Construction and Industry

- Rooflights and skylights
- Architectural structures, industrial facilities, public buildings etc.
- Canopies and shelters (garages, swimming pools, etc.)
- Partitions
- Covered walkways and sidewalks

Do-It-Yourself (D.I.Y.)

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

► 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 MP	°C	130
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	%	7
Elongation at break	D-638	10 mm/min	%	>80
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,300
Flexural strength	D-790	1.3 mm/min	MPa	93
Flexural modulus	D-790	1.3 mm/min	MPa	1,900
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	WI	>1

*ASTM method except where noted otherwise

► Flammability

SUNTUF has a low flammability rating and does not emit toxic gasses when burning. SUNTUF meets many international fire standards, some of them appear in the following table.

Standard	Classification*
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 additional information please contact your PALRAM distributor

