



SUNTUF® Beehive

Corrugated Polycarbonate Sheet with a Prismatic Surface



Overview

A high-performance impact resistant polycarbonate roofing sheet engineered for professional and residential projects.

SUNTUF Beehive generates diffused light with reduced glare for enhanced comfort.

Hail proof polycarbonate that combines superior strength and durability.

An excellent choice for DIY skylights, carport roofing, and other home improvement projects.

Add modern aesthetics and style to your roofing project while extending its lifespan.

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Main Benefits

- Hail & impact resistant
- Superior Strength & durability
- Improved absorption of rain noise
- Modern aesthetics
- Lightweight & easy to install
- UV Protection
- 100% diffused light
- Balance shade & daylight
- High wind and snow load resistance
- Meets the highest fire-retardant standards


Typical Applications

- Pergolas and gazebos
- Patio enclosures
- Sunrooms
- Carports
- Covered walkways
- Canopies and overhangs








Product Availability

Textures	Prismatic-honeycomb		
Thickness	2.8 mm		
Width	860 mm	Cover	760 mm
Profile	76/18 Corrugated		
U Value	5.5 W/M ² k		
R Value	0.18M ² k/W		

Color Range

		LT (%)	SC	SHGC
Clear		90	1.00	0.87
Grey		20	0.51	0.44
Solar Ice		20	0.44	0.38

Span Data

Corrugated Profile

Max Mid Span	1400mm
Max End Span	1100mm

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)	2.8 mm sheet	J	75
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

Flammability

SUNTUF® Beehive 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.

Australian Standard: AS/NZS 1530.3:1999

European Standard: EN 13501 - B s1, d0



PALRAM SA/NT
517A Cross Keys Road
Cavan SA 5094
Tel: (08) 8262 2288
Fax: (08) 8262 3388
salessa@palram.com

PALRAM NSW/ACT
Unit 2, 26 Redfern St.
Wetherill Park, NSW 2164
Tel: (02) 8788 6100
Fax: (02) 8788 6199
salesnsw@palram.com

PALRAM QLD
Unit 9C / 380 Bilsen Road
Geebung QLD 4034
Tel: (07) 3172 5581
Fax: (07) 3172 5516
salesqld@palram.com

PALRAM VIC/TAS
34 Buys Court
Derrimut VIC 3030
Tel: (03) 9219 4444
Fax: (03) 9219 4455
salesvic@palram.com

PALRAM WA
74 Christable Way
Landsdale WA 6065
Tel: (08) 9302 4173
Fax: (08) 9302 5287
saleswa@palram.com



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