













Overview

Main Benefits

- High impact resistance Virtually unbreakable
- High clarity and light transmission
- Weather and UV resistant
- Wide service temperature range
- Blocks harmful UV radiation
- Good acoustical insulation
- Lightweight
- Easy to handle and install
- Versatile, formable, and machinable
- Printable



Typical Applications

Architecture

- Transparent acoustic barriers
- Sport venues
- Skylights
- Shopping centers
- Covered walkways

Construction

- Sun rooms and conservatories
- Pergolas and covered patios

Safety and Security Glazing

- Safety glazing, machine guards
- Bus stops and Glazing transportation
- Shields for police and security forces
- Safety windshields for cars
- Eye protection visors for helmets

Sign & Display

- Signs, public sign guards
- Displays, P.O.P stands
- Illuminated signs, light fixtures

Fabrication

 Thermoformed, vacuum formed, bent and fabricated items

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Standard Dimensions*

		Surface Finish				
Thickness (mm)	Width x Length (mm)	Smooth Both sides	Raindrops Embossed Both sides	Matte One side	Hair Cell One side	Prismatic One side
1	1220 x 2440	~		~		
1.5	1250 x 2440	~	~	~		
2	1220 x 2440 1250 x 2440	~	~	V		
2.5 - 6		~	~	~	~	~
8 - 12.7	2050 x 3050	~				
2 - 18	2450 x 3050	~				

^{*}Other dimensions are available upon request, subject to a minimum order.

Colors*

Transpa	arent					W	W	W
Clear	Grey	Bronze	Red	Blue	Green	Smart Green	Smart Blue	Bluish Breeze™
Translucent					W	W		
Yellow	Red	Mint Green	White Opal 11-50% LT	White Diffuser 11-50% LT	Solar Ice	Solar Olympic	Solar Control	

opadac									
Dark Green	Red Brick	Black	Dark Blue	Cream RAL 9001	Light Grey RAL 7035	Dark Grey	Brown	Off White	

^{*}Custom colors and solar transmissions are available upon request, subject to a minimum order.

PALSUN® Product Range

Product	Description
PALTUF™	General purpose flat solid polycarbonate sheet for interior use
PALSUN®	UV protected on one side
PALSUN® UV2	UV protection on both sides
PALSUN® Embossed*	Prismatic, Hair Cell & Raindrops surface finishes
PALSUN® FR*	Fire retardant (UL94 V0)
PALSUN® Matte*	Matte finish on one side
PALSUN® Solar Control*	Efficient heat-blocking with metallic appearance
PALSUN® Breeze*	Advanced heat-blocking with high transparency
PALGARD™	Abrasion resistance on one or both sides

^{*} Available with UV protection on one or both sides.

Typical Physical Properties

Property	(Method*)	Conditions	Units	Value
Density	(D-792)		g/cm³	1.2
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	130
Service Temperature - Short Terr	n		°C	-50 to +120
Service Temperature - Long Terr	n		°C	-50 to +100
Coefficient of Linear Thermal Ex	pansion (D-696)		mm/m °C	0.065
Thermal Conductivity	(C-177)		W/m K	0.21
Tensile Strength at Yield	(D-638)	10 mm/min.	MPa	65
Tensile Strength at Break	(D-638)	10 mm/min.	MPa	60
Elongation at Yield	(D-638)	10 mm/min.	%	6
Elongation at Break	(D-638)	10 mm/min.	%	>90
Tensile Modulus of Elasticity	(D-638)	1 mm/min.	MPa	2,300
Flexural Strength	(D-790)	1.3 mm/min.	MPa	100
Flexural Modulus	(D-790)	1.3 mm/min.	MPa	2,600
Impact Falling Weight	(ISO 6603/1 E50)	3mm sheet	J	158
Rockwell Hardness	(D-785)		R Scale	125R
Light Transmission	(D-1003)	3mm clear sheet	%	90
Haze	(D-1003)	3mm clear sheet	%	<0.5
Yellowness Index	(D-313)	3mm clear sheet	ΥI	<1

^{*} ASTM except where noted.

Flammability

PALSUN 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.

Product	Standard	Classification*
	EN13501	B, s1, d0
	BS 476/7	Class 1
PALSUN®	NFP 92501, 4	M2
	UL Classified	V2 (File e221255)
	ASTM D-635	CC1
	Standard	Classification*
PALSUN® FR	UL 94	V0 (File e221255)

^{*} For more detailed information please contact your Palram distributor.

Installation

Product masking (protective film) must be removed from both sides immediately after installation. Installation instructions are available from your PALRAM distributor upon request.



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