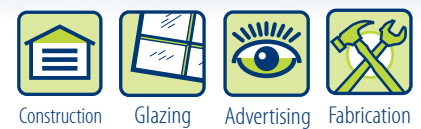




Uniclass	EPIC
L6619L414:P*	F5217:D14+D15:X*
Cl/SfB	
(37.4)	Rn6

PALSUN[®]

Flat Polycarbonate Sheet



► Introduction

PALSUN presents the transparency of glass at less than half the weight, combined with unmatched strength. PALSUN can be cold bent, fabricated and/or formed, making it ideal for applications such as barrel vault roofing, roof (sky) lights, architectural roofing and glazing. Clear, translucent or opaque, PALSUN sheets are also ideal as machine guards, sound barriers and safety glazing.

► Features and Benefits

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



► Typical Physical Properties

Property	(Method*)	Conditions	Units	Value
Density	(D-792)		g/cm ³	1.2
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	130
Service Temperature - Short Term			°C	-50 to +120
Service Temperature - Long Term			°C	-50 to +100
Coefficient of Linear Thermal Expansion	(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)	1 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 E ₅₀)	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-1003)	3mm clear sheet	WI	<1

* ASTM except where noted.

► Typical Applications

Safe and secure glazing or shielding

- Safety glazing
- Protective shields for machines
- Glazing in schools and public buildings
- Construction of protective enclosures for bus stops and telephone booths
- Transparent protective shields for police and security forces
- Glazing in boats, trains, busses and planes
- Windshields for cars
- Eye protection visors for helmets

Other Applications...

- Signboards and illuminated signage
- Light Fixtures (opal, diffuser, or embossed sheets)
- Thermoformed, Vacuum Formed, Bent, and Fabricated Items

Construction

- Transparent acoustic barriers
- Roofing of stadiums
- Skylights
- Glazing of windows
- Ceilings in halls and shopping centers
- Pergolas, covered patios or walkways
- Sun rooms, conservatories and hobby greenhouses
- Roofs for buildings and halls
- Attic windows

► Flammability

PALSUN®		PALSUN® FR	
Standard	Classification*	Standard	Classification*
BS 476/7	Class 1	UL Classified	V0 (File e221255)
NSP 92501, 4	M1, M2	ASTM D-2863-87	L.O.I. = 30
DIN 4102	B1, B2	AU 1530.3-1982	Ignitability Index = 9
CSE RF 2/75/A, CSE RF 3/77	Class 1		Spread of Flame Index = 8
UL Classified	V2 (File e221255)		Heat Evolved Index = 10
ASTM D-635	CC1		Smoke Developed Index = 8

* Presented data depends on thickness.

For additional information please contact your PALSUN distributor.

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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► PALSUN® Product Range

Product	Description
PALTUF™	General purpose flat solid polycarbonate for interior uses
PALSUN®	Flat solid polycarbonate, UV protected on one side
PALSUN® UV2	Flat solid polycarbonate, UV protected on both sides
PALSUN® Embossed*	Flat solid polycarbonate, embossed (E102, prismatic, hair cell)
PALSUN® FR*	Flat solid polycarbonate, higher fire resistant rating
PALSUN® Matte*	Flat solid polycarbonate, matte finish on one side
PALSUN® Solar Control*	Flat solid polycarbonate, limits undesired heat component of radiation, UV protection on one or both sides
PALSUN® Foam	Flat foamed polycarbonate, UV protected on one side
PALGARD™ *	Flat solid polycarbonate, abrasion resistant on one or both sides

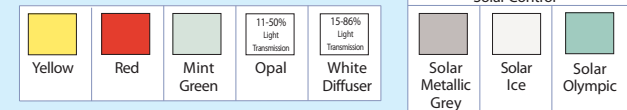
*With co-extruded UV protection on one or both sides

► Colors

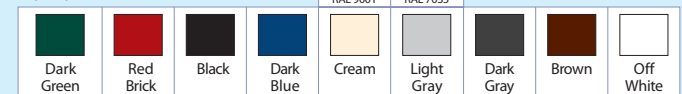
Transparent



Translucent



Opaque



► Standard Dimensions

Please refer to the complete catalogue for information that will assist you in selecting the correct sheet dimensions.

Thicknesses:

Thickness (mm)	Smooth	Embossed	Matt
1, 1.5	x		x
2 - 6	x	x	x
8 - 12	x	x	

Width x Length (mm): 1250 x 2050, 1220 x 2440, 2050 x 3050

Other dimensions are available with a special order (minimum quantity requirements may apply in certain cases).

► Installation

Installation instructions can be supplied upon request. The polyethylene protective film must be removed from both sides immediately after installation.



EPSE