



PALIGHT® Outdoor

Foamed PVC Sheet for Exterior Signage & Display Applications



► Introduction

PALIGHT Outdoor is a versatile, lightweight and durable foamed PVC sheet that is ideal for outdoor signage and display applications. PALIGHT offers an excellent white color and a smooth or wood grain finish.

PALIGHT Outdoor can easily be printed to create displays and signs that pop, thanks to its consistent, smooth surface. PALIGHT Outdoor is easily handled, cut and fabricated using conventional tools and equipment.

► Primary Benefits

- Tested and approved by construction professionals
- Consistent, smooth surface, or woodgrain finish
- Available in various thicknesses
- Good insulation, low heat transmission
- Non-toxic / RoHS Compliant
- Very low flammability (UL 94: V-0)
- High chemical resistance
- Industry-first 25 Year Limited Warranty
- Half the weight of solid PVC sheets; same thickness at lower cost
- Good mechanical properties
- Easily printed or painted (*see fabrication guide for important details about paint reflectance values*)
- Can be easily bonded, nailed and bolted
- Durable closed-cell structure (*virtually waterproof*)



► Benefits Over Wood

Property	PALIGHT Outdoor	Wood
Rot resistant	★	-
Virtually waterproof	★	-
Direct contact with masonry	★	-
Resistant to splitting	★	-
No pre-drilling required to avoid splitting near edges when nailing	★	-
Self extinguishing	★	-
25-Year Limited Warranty	★	-

► Typical Applications

- **Advertising** - Exterior signs, displays and exhibition boards.
- **Digital Printing** - PALIGHT Outdoor provides a suitable substrate for UV digital flatbed printer when producing signs destined for medium to long-term exterior use. The sheet combines consistent, flat surface with market-leading thickness and UV protection.
- **Screen Printing** - PALIGHT Outdoor's consistent surface makes it ideal for painting or screen printing (*see Fabrication Guide for important info about paint reflectance values*). It is suitable for use with aqueous and solvent-based inks, and latex paints. PALIGHT's sheet surface has low absorption giving excellent ink yield.
- **Construction** - Models, partitions, wall cladding, exterior decoration, wood replacement, etc. (*Note: Palight Outdoor is not intended for use in load-bearing applications.*)

► Other PALIGHT Products

- **PALIGHT® Premium** - Optimized for digital and screen printing applications, Palight Premium offers our brightest white point, a smooth, consistent surface, high ink adhesion, and excellent workability using routers, saws or thermoforming equipment.
- **PALIGHT® GPS** - Value-priced General Purpose Substrate for laminating, or display construction applications.

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► Range of Dimensions and Colors

Specification	Inch	Metric
White	Thickness Range	0.5, .075, 1.0, 1.25
	Panel Dimension Range	4' x 8'
		12.7, 19, 25.4, 32
		1220 x 2440

Important Notes: Other sizes may be available upon request with minimum order quantities. Contact your Palram representative for details.

► Typical Physical Properties

Property	Method	Conditions	Units	Value
Density	(D-1505)		lb/ft ³	.35*
Water absorption	(D-570)	24 hr. @ 73 °F	%	0.5
Heat deflection temperature (HDT)	(D-648)	Load: 1.82 MPa	°F	145
VICAT	(D-1525)	(264 psi)	°F	165
Coefficient of linear thermal expansion	(D-696)	Load: 2.2 lb.	in./in.°F	3.7 x 10 ⁻⁵
Thermal conductivity	(C-177)		W/m K	0.49

*These specifications apply to Palight Outdoor only and represent the typical properties of the product at a thickness of 0.5" to 1.25".

► Protective Masking



Some PALIGHT products are available with protective poly film on one side as an option with minimum order quantities.

► Flammability

PALIGHT sheets are considered self-extinguishing and comply with the most demanding international fire resistance standards, as indicated by the results in the table at right.

Standard	Classification*
DIN 4102	B-2
BS 476/7	Class 1
NSP 92501,5	M-1, M-2
UL 94	V-0

*Depends on thickness, type and color.



Authorized Dealer

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