



PALIGHT®

Foamed Flat PVC Sheet



► Introduction

PALIGHT is a versatile, flexible, lightweight and durable foamed PVC sheet that is ideal for use in advertising and construction. PALIGHT offers the whitest color available and has been successfully tested by the major grand format printer manufacturers.

Grand format printers and advertisers will benefit from its consistent, smooth, bright surface for producing high quality displays. PALIGHT is easily handled, cut and fabricated using conventional tools and equipment, and can be printed, painted or laminated.

► Primary Benefits

- Tested and approved by major printer manufacturers
- Consistent, smooth matte surface
- Available in a wide range of thicknesses and sizes
- Good insulation, low heat transmission
- Non-toxic / RoHS Compliant
- Very low flammability (UL 94: V-0)
- High chemical resistance
- Half the weight of solid PVC sheets; same thickness at lower cost
- Good mechanical properties
- Easily worked with conventional tools, prints and paints
- Can be easily bonded, vacuum formed, nailed and bolted
- Durable closed-cell structure (virtually waterproof)



► Typical Applications

- **Advertising** - Signs, displays and exhibition boards, etc.
- **Digital Printing** - PALIGHT is specially designed for digital flatbed printers. White PALIGHT sheets display bright and smooth surface for true color interpretation. The sheet combines consistent, flat surface with market leading thickness control. PALIGHT is suitable for use with UV-cured and solvent-based inks.
- **Screen Printing** - PALIGHT's flat, consistent surface makes it ideal for screen printing. It is suitable for use with aqueous and solvent-based inks. PALIGHT's sheet surface has low absorption giving excellent ink yield.
- **Construction** - Models, partitions, wall cladding, interior decoration, wood replacement, air conditioning ducts, etc.
- **Industry** - Control cabinets and panels, structures for corrosive environments, ducts, etc.

► Typical Physical Properties

Property	Method	Conditions	Units	Value
Density	(D-1505)		lb/ft ³	See Below*
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	167
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

* PALIGHT - 0.55-0.7 depending on thickness.

► 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.

► Range of Dimensions and Colors

Specification		Inch	Metric
White	Thickness Range	.040 – .511, .591, .748, .984	1–13, 15, 19, 25
	Panel Dimension Range	4' x 8'	1220 x 2440
		5' x 8'	1560 x 3050
6' x 8'	2030x3050		
Colors	Thickness Range	.118, .236	3, 6
	Dimensions	4' x 8'	1220 x 2440

Important Notes: Not all size, thickness and color combinations are available on "in stock" basis. For specific availability, contact your Palram representative.

Special dimensions are available upon request with minimum order requirements. 1mm – 12mm max thickness, 82" max width, 240" max length.

PALIGHT® Stock and Standard Colors*

Color	Palram #	PANTONE®**
	ST-10	
	ST-20	-
	ST-30	108U
	ST-40	1235C
	ST-50	1805C
	ST-60	2935C
	ST-70	288C
	ST-80	3415C
	ST-90	4C 2X
	ST-100	430C

PALIGHT® Designer Colors*

Color	Palram #	PANTONE®**
	DE-11	
	DE-21	Warm Grey 2C
	DE-31	102C
	DE-41	144U
	DE-51	165C
	DE-61	485C
	DE-71	187C
	DE-81	277C
	DE-91	2757C
	DE-101	337C
	DE-111	348C
	DE-121	3308C
	DE-131	431C
	DE-141	428C

* Standard and Designer Colors are available in all thicknesses and dimensions stated above, but are subject to minimum order quantities. The printed colors and the indicated PANTONE® designations are the closest match. The indices are presented only to give an approximate indication. To view the exact color, please request a sample chip from your Palram distributor.

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