



PALIGHT®

Flat Foamed PVC Sheet



Advertising Construction Fabrication

► Overview

PALIGHT is a versatile, flexible, lightweight and durable foamed PVC sheet that is ideal for use in advertising and construction. PALIGHT exhibits the whitest color available and was successfully tested by the majority of digital flatbed printer manufacturers. Printers and advertisers may benefit from its constantly smooth and 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.

► Features and Benefits

- Optimally designed for digital printing
- Bright white, smooth and uniform surface
- Available in a wide range of standard and special designer colors
- Standard matt or gloss finishes
- Good insulation, lower heat transmission
- Non-toxic
- Flammability: self-extinguishing
- 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
- Low water absorption
- High chemical resistance
- Meet various international standards



► PALIGHT® Product Range

Product	Description
PALIGHT®	Flat foamed PVC sheet with matt finish, available in white and a wide range of colors.
PALIGHT® 2001	Flat foamed PVC sheet with glossy hard surface on one side, available in white and standard colors.

► Typical Applications

- **Advertising** - Signs, displays and exhibition boards, etc.
- **Construction** - Models, partitions, wall cladding, interior decoration, air conditioning ducts, etc.
- **Industry** - Control cabinets and panels, structures for corrosive environments, ducts, etc.
- **Serigraphy (Screen Printing)** - PALIGHT's flat, consistent surface makes it ideal for screen printing. It is suitable for use with aqueous and solvented inks. PALIGHT's sheet surface has low absorption giving excellent ink yield.
- **Digital Printing** - PALIGHT is specially designed for digital flatbed printers. All 1-10mm 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 curing and solvented digital inks.

► Typical Physical Properties

Property	(ASTM Method)	Conditions	Units	Value
Density	(D-792)		g/cm ³	0.55-0.7**
Water Absorption	(D-570)	24 hr. @ 23 °C	%	0.5-0.8**
Flexural Strength at Yield	(D-790)	1 mm/min.	MPa	28*
Heat Deflection Temperature	(D-648)	Load: 1.82MPa	°C	63
VICAT Softening Temp.	(D-1525)	Load: 1 kg	°C	75
Coefficient of Linear Thermal Expansion	(D-696)		cm/cm °C	6.7x10 ⁻⁵
Thermal Conductivity	(C-177)		W/m K	0.06-0.07**
Surface Resistance	(D-257)		Ohm	5 x 10 ¹⁵
Volume Resistance	(D-257)		Ohm-cm	2 x 10 ¹⁶

* Results refer to 3mm sheet

** Depending on thickness (3-10mm)

► Flammability

PALIGHT sheets are self-extinguishing and comply with the most demanding international fire resistance standards defined in the field of plastics, as indicated by representative results in the attached table.

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

* Depends on product thickness, type and color.

► Standard Dimensions and Colors

Specification	PALIGHT®	PALIGHT® 2001	
Units	mm	mm	
Thickness	1-13, 15, 19***	3, 5, 6, 10	White
Width*	1220, 1560, 2030	1220	
Length*	2440, 3050	2440, 3050	
Colors	Standard and Designer Colors**	Black, Gray, Red, Blue, Yellow, Green	Colors
Thickness	3, 5, 6	3, 5	
Width*	1220, 2030, 1560	1220	
Length*	2440, 3050	2440, 3050	

* Special dimensions available upon request.

** For complete color listing please review the color table below.

*** 13mm thicknesses and above are available in 1220mm width only.

PALIGHT® Standard Colors

Color	PANTONE	RAL
White*	ST-10	
Cream	ST-20	9001
Yellow	ST-30	108U
Bright Yellow	ST-40	1235C
Red	ST-50	1805C
Light Blue	ST-60	2935C
Blue	ST-70	288C
Green	ST-80	3415C
Black	ST-90	4C 2X 9011
Grey	ST-100	430C 7037

* 1-10mm Sheets are White ST-10, 12-25mm sheets are Classic White.

PALIGHT® Designer Colors*

Color	PANTONE®	RAL
White DG	DE-11	
Dark Cream	DE-21	Warm Grey 2C 1013
Light Yellow	DE-31	102C
Light Orange	DE-41	144U
Orange	DE-51	165C 2004
Red	DE-61	485C
Dark Red	DE-71	187C 3001
Pastel Blue	DE-81	277C
Dark Blue	DE-91	2757C 5002
Turquoise	DE-101	337C
Green	DE-111	348C 6024
Dark Green	DE-121	3308C 6005
Dark Grey	DE-131	431C 7012
Light Gray	DE-141	428C 7074

* Designer colours are available in all thicknesses and dimensions, subject to a minimum quantity order.

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