



Overview

PALIGHT is a lightweight, versatile, flexible, and durable foamed PVC sheet that is ideal for use in advertising and construction.

PALIGHT exhibits the whitest available surface and was successfully tested by the majority of digital flatbed printer manufacturers. Printers and advertisers 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.

Main Benefits

- Tested and approved for digital printing
- Bright white, smooth and uniform surface
- Available in a wide range of standard and special designer colors
- Standard matte or gloss finishes
- Good insulation, lower heat transmission
- Non-toxic
- Good 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

Typical Applications

Advertising

Signs, displays, interior decoration, exhibition graphics, cladding 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 solvent-based inks. PALIGHT's sheet surface has low absorption giving excellent ink yield.

Digital Printing

PALIGHT was approved by major digital flatbed printer manufacturers, and is suitable for use with digital inks and UV curing. All 1-10mm white PALIGHT sheets have a bright and smooth surface for true color interpretation.

Standard Dimensions*

PALIGHT®	Color	ST-Code	Thickness Availability / Dimensions (mm)		
			1220x2440	1560x3050	2030x3050
White	ST-10	1-13, 15, 19, 25	All	All	
Yellow	ST-30	3, 5			
Red	ST-50	3, 5		3, 5	
Black	ST-90	3, 5, 10	3, 5	3, 5, 6, 8, 10	
Blue	ST-70	3, 5		3, 5	
Green	ST-80	3			
Grey	ST-100	3, 5	3, 5	3, 5	

* Special dimensions are available upon request.

Product Range

Product	Description
PALIGHT®	Flat foamed PVC sheet with matte finish, available in a wide range of standard and special designer colors.
PALFOAM™	Low-weight flat foamed PVC sheet with matte finish. Available in white only.

Typical Physical Properties

Property	ASTM Method	Conditions	Units	Value
Density	(D-792)		g/cm ³	0.57*
Water Absorption	(D-570)	24 hr. @ 23 °C	%	0.5-0.8**
Flexural Strength at Yield	(D-790)	1 mm/min.	MPa	28*
VICAT Softening Temp	(D-1525)	Load: 1kg	°C	75
Coefficient of Linear Thermal Expansion	(D-696)		cm/cm °C	6.7x10 ⁻⁵
Thermal Conductivity	(C-177)		W/mK	0.06-0.07**
Surface Resistance	(D-257)		Ohm	5X10 ¹¹
Volume Resistance	(D-257)		Ohm-cm	2X10 ¹¹

*Results refer to 3mm sheet **Depending on thickness (3-10mm)

Flammability

PALIGHT is self extinguishing and complies 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*
EN 13501	B, s1-3, d0
BS 476/7	Class 1
NSP 92501,5	M-1, M-2
UL 94	V-0

*Depends on thickness, type and color.

Color Chart

Standard Colors	Code	PANTONE®	RAL
	White*	ST-10	
	Red	ST-50	1807U
	Yellow	ST-30	108U
	Blue	ST-70	288C
	Green	ST-80	3415C
	Black	ST-90	4C
	Grey	ST-100	430C

* Whites are divided by thickness: 1-10mm: ST-10 12-25mm: Classic White

Designer Colors	Code	PANTONE®	RAL
	Digital White	DE-11	
	Cream	ST-20	-
	Antique Cream	DE-21	Warm Grey 2C
	Smoke Grey	DE-141	428C
	Dim Grey	DE-151	408C
	Dark Grey	DE-131	431C
	Burgundy	DE-71	187C
	Cardinal Red	DE-211	193C
	Firebrick Red	DE-61	485C
	Orchid Pink	DE-221	204C
	Orange	DE-51	21C
	Blaze Orange	DE-41	158C
	Bright Yellow	ST-40	1235C
	Lemon	DE-31	102C
	Lime green	DE-181	390C
	Sea Green	DE-171	361C
	Mint Green	DE-111	340C
	Olive Green	DE-161	378C
	Dark Green	DE-121	3308C
	Turquoise	DE-101	337C
	Steel Blue	DE-81	2707C
	Sky Blue	DE-201	7401C
	Light Blue	ST-60	2935C
	Royal Blue	DE-191	287C
	Sapphire Blue	DE-91	2757C