

Palight

Flat Foamed PVC Sheet



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 colours.
- ❖ 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, and 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 colour interpretation.

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Standard Dimensions – Palight Standard

Colour		2440 x1220	3050 x 1560	3050 x 2030
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

Standard Dimensions – Palight 2001 Gloss








Colour		2440 x1220	3050 x 2030
White		3, 5, 6, 10	3, 5, 6, 10
Yellow, Red, Black, Blue, Green, Grey		3, 5	3, 5

Product Range

Product	Description
Palight	Flat foamed PVC sheet with matte finish, available in a wide range of standard and special designer colours.
Palfoam	Low-weight flat foamed PVC sheet with matte finish. Available in white only.
Palight 2001	Flat foamed PVC sheet with glossy hard surface on one side, available in white and standard colours.

Typical Physical Properties

Property	ASTM Method	Conditions	Units	Value
Density	D-792		g/cm ³	0.57
Water absorption	D-570	24hr @ 23°C	%	0.5-0.8
Flexural strength (yield)	D-790	1mm/min	MPa	28*
VICAT softening temp	D-1525	Load: 1kg	°C	75
Coefficient of LTE	D-696		Cm/cm°C	6.7x10
Thermal conductivity	D-177		W/mK	0.06-0.07
Surface resistance	D-257		Ohm	5x10
Volume resistance	D-257		Ohm-cm	2x10

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	9011
 Grey	ST-100	430C	7037

* 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	-	9001
 Antique Cream	DE-21	Warm Grey 2C	1013
 Smoke Grey	DE-141	428C	7047
 Dim Grey	DE-151	408C	-
 Dark Grey	DE-131	431C	7012
 Burgundy	DE-71	187C	3002
 Cardinal Red	DE-211	193C	3031
 Firebrick Red	DE-61	485C	-
 Orchid Pink	DE-221	204C	4003
 Orange	DE-51	21C	2004
 Blaze Orange	DE-41	158C	2011
 Bright Yellow	ST-40	1235C	-
 Lemon	DE-31	102C	-
 Lime green	DE-181	390C	-
 Sea Green	DE-171	361C	6018
 Mint Green	DE-111	340C	6024
 Olive Green	DE-161	378C	-
 Dark Green	DE-121	3308C	6005
 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	5002

Standard	Classification
EN 13501	B, s1, d0
BS 476/7	Class 1
NSP 92501,5	M-1, M-2
UL 94	V-0

Flammability

Palight is self extinguishing and complies with the most demanding international fire resistance standards defined in the field of plastics.