

PALIGHT®

Foamed Flat PVC Sheets



► Introduction

PALIGHT foamed PVC sheets are ideal for use in advertising, construction and industry. PALIGHT sheets feature lightweight, durable and versatile surfaces which can be painted, printed, laminated, embossed, engraved or milled, according to customer specifications. PALIGHT can be fabricated, formed and installed easily using conventional methods. PALIGHT and PALIGHT 2001 are available in the following colors: white, gray, red, blue, yellow, green and black.

► Features at a Glance

- Half the weight of solid PVC sheets. (Specific gravity: 0.55 - 0.70)
- Same thickness at lower cost
- **NEW** - PALIGHT Digital for digital printing
- Good mechanical properties
- Good insulation, lower heat transmission
- Easily worked with conventional tools, prints and paints
- Can be easily bonded, vacuum formed, nailed and bolted
- Flammability: self-extinguishing
- Low water absorption
- High chemical resistance
- Meet various international standards
- Non-toxic
- ISO 9001:2000 certified quality assurance



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► 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.

► Typical Physical Properties

PROPERTY (ASTM Method)	CONDITIONS	UNITS	VALUE	
Density (D-1505)		g/cm ³	See Below ^a	
Water Absorbion (D-570)	24 hr. @ 23 °C	%	0.5	
Heat Deflection Temperature (D-648)	Load: 1.82 MPa	°C (°F)	59 - 63 (138 - 145)	
VICAT (D-1525)	Load: 1 kg	°C (°F)	74 - 75 (165 - 167)	
Coefficient of Linear Thermal Expansion (D-696)		cm/cm °C	6.7 x 10 ⁻⁵	
Thermal Conductivity (C-177)		W/m K	0.07	
Surface Resistance (D-257)		Ohm	5 x 10 ¹⁵	
Volume Resistance (D-257)		Ohm-cm	5 x 10 ¹⁶	
			Machine Direction	Transverse Direction
Tensile Strength at Yield (D-638)	10 mm/min	MPa	15 - 16	8 - 9
Tensile Strength at Break (D-638)	10 mm/min	MPa	14 - 15	8 - 9
Elongation at Yield (D-638)	10 mm/min	%	2 - 3	10 - 11
Elongation at Break (D-638)	10 mm/min	%	29 - 30	10 - 11
Flexural Stress at Yield (D-790)	1 mm/min	MPa	27 - 28	13 - 14

^a PALIGHT and PALIGHT 2001 - 0.55-0.7 depending on thickness.

► 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 table below.

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

* Depends on thickness.

► Palram Foamed Flat PVC Sheets

Product	Description
PALIGHT	Flat foamed PVC sheet with matt finish on both sides available in both white and colors
PALIGHT 2001	Flat foamed PVC sheet with glossy hard surface on one side, available in white and colors.
PALIGHT Digital	Flat white foamed PVC sheet developed especially for digital printing applications



► Standard Dimensions and Colors

Specifications	PALIGHT	PALIGHT 2001	PALIGHT Digital
Color	White	White	White
Units	mm	mm	mm
Thickness	1-13, 15, 17, 19	3-10	1-10
Width*	1220	1220	1220
	1560	1520	1560
	2030		
Length*	2440	2440	2440
	3050	3050	3050
Colors	Black, Gray, Red, Blue, Yellow, Green	Black, Gray, Red, Blue, Yellow, Green	
Units	mm	mm	
Thickness	3, 5, 6	3, 5, 6	
Width*	1220	1220	
Length*	2440	2440	
	3050	3050	

* Special dimensions available upon request.

Your local distributor:



BAY PLASTICS LTD

Unit H1, High Flatworth, Tyne Tunnel Trading Estate
North Shields, Tyne & Wear
NE29 7UZ.

Tel: +44 (0) 191 258 0777

Fax: +44 (0) 191 258 1010

E-mail: sales@bayplastics.co.uk

Website: www.bayplastics.co.uk

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Europe
UK
Israel
USA
Australia
Far East



EUROPE

PALRAM EUROPE LTD.

Tel ► (44) 1302 380 777

Fax ► (44) 1302 380 788

sales.europe@palram.com

PALRAM UK

Tel ► (44) 1302 380 738

Fax ► (44) 1302 380 739

sales.uk@palram.com

ISRAEL

PALRAM ISRAEL LTD.

Tel ► (972) 4 8459 900

Fax ► (972) 4 8459 980

palram@palram.com

USA

PALRAM AMERICAS

Tel ► 610 285 9918

Fax ► 610 285 9928

palramamericas@palram.com

www.palram.com

