



# 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.

## ► Main Benefits

- Tested and approved for digital printing
- Bright white, smooth and uniform surface
- Available in a wide range of standard and special designer color
- 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



## ► Typical Applications

- **Advertising** - Signs, displays, interior decoration, exhibition boards and 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 solvented inks. PALIGHT's sheet surface has low absorption giving excellent ink yield.
- **Digital Printing** - PALIGHT is specially designed for digital flat-bed printers. All 1-10mm white PALIGHT sheets display a bright and smooth surface for true colour interpretation. PALIGHT is suitable for use with UV curing and solvented digital inks.

## ► 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. |

## ► Standard Dimensions and Colors

| Specification | PALIGHT® (mm)              | PALIGHT® 2001(mm)                     |        |
|---------------|----------------------------|---------------------------------------|--------|
| Thickness     | 1-13, 15, 19, 20, 25       | 3, 4                                  | White  |
| Dimensions*   | 1220x2440                  | 1220x2440                             |        |
|               | 1560x3050                  |                                       |        |
|               | 2030x3050                  |                                       |        |
| Colors        | Standard & Designer Colors | Black, Gray, Red, Blue, Yellow, Green | Colors |
| Thickness     | 3, 6                       | 3                                     |        |
| Dimensions*   | 1220x2440                  | 1220x2440                             |        |
|               | 2030x3050                  |                                       |        |

\*Special dimensions are available upon request.

## ► Typical Physical Properties

| Property                                | (ASTM Method) | Conditions     | Units             | Value                |
|---|---------------|----------------|-------------------|----------------------|
| Density                                 | (D-792)       |                | g/cm <sup>3</sup> | 0.55-0.7*            |
| Water Absorption                        | (D-570)       | 24 hr. @ 23 °C | %                 | 0.5-0.8**            |
| Flexural Strength at Yield              | (D-790)       | 1mm/min.       | MPa               | 28*                  |
| VICAT Softening Temp.                   | (D-1525)      | Load: 1kg      | °C                | 75                   |
| Coefficient of Linear Thermal Expansion | (D-696)       |                | cm/cm °C          | 6.7x10 <sup>-5</sup> |
| Thermal Conductivity                    | (C-177)       |                | W/mK              | 0.06-0.07**          |
| Surface Resistance                      | (D-257)       |                | Ohm               | 5X10 <sup>15</sup>   |
| Volume Resistance                       | (D-257)       |                | Ohm-cm            | 2X10 <sup>16</sup>   |

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

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Europe  
UK  
Israel  
USA  
Australia  
Far East



### EUROPE

**PALRAM EUROPE LTD.**  
Tel: +44-1302-380776  
Fax: +44-1302-380788  
sales.europe@palram.com  
www.palram.com

**PALRAM UK**  
Tel: +44-1302-380738  
Fax: +44-1302-380788  
sales.uk@palram.com

### ISRAEL

**PALRAM ISRAEL**  
Tel: +972-4-8459900  
Fax: +972-4-8459980  
palram@palram.com  
www.palram.co.il

### USA

**PALRAM AMERICAS**  
Tel: +610-2859918  
Fax: +610-2859928  
palramamericas@palram.com  
www.palramamericas.com

## ► 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 |

## ► 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 |

## ► 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.

