



New PALIGHT®

Creating Solutions – An Innovative New White Foamed PVC Sheet

- ➔ PALRAM has created a new white PALIGHT range with bright white color, precise thickness control, an ultra smooth and consistent surface, excellent rigidity, and superb mechanical properties.
- ➔ **Brighter whiteness** for a stronger image and true color interpretation
- ➔ **Precise thickness control** and an **ultra smooth**, consistent surface to meet the needs of today's screen printers and especially flat bed digital printers.
- ➔ **Excellent rigidity** and superb mechanical properties for outstanding die-cutting, general cutting and fabrication.
- ➔ New PALIGHT is designed in partnership with leading flat bed digital print machine manufacturers and is suitable for use with screen and digital inks.



► Typical physical properties

Property	Conditions (US) ^a	ASTM Method ^b	Units - SI (US) ^a	Value (U.S. Customary) ^a	Value (U.S. Customary) ^a
Sheet Thickness				3 mm (0.12 in.)	10 mm (0.39 in.)
Physical					
Water Absorption	24 hr. @ 23°C (73° F)	D-570	%	0.5	0.8
Density ^c			g/cm ³ (lb/ft ³)	0.65-0.70 (38-41)	0.55-0.6 (34-38)
Mechanical					
Tensile strength at yield	10 mm/min (0.4 in./min)	D-638	MPa (psi)	16 (2,300)	11 (1,600)
Elongation at break	10 mm/min (0.4 in./min)	D-638	%	30	20
Flexural Strength at Yield	1 mm/min (0.04 in./min)	D-790	MPa (psi)	28 (4,050)	22 (3,200)
Flexural modulus	1 mm/min (0.04 in./min)	D-790	MPa (psi)	900 (130,500)	900 (130,500)
Impact Strength Notch Charpy	23 °C (73 °F)	D-256	J/m (ft.lbf/in.)	29 (0.54)	17 (0.32)
Thermal					
Service Temperature			°C (°F)	-10 to 55 °C (14 to 131°F)	-10 to 55 °C (14 to 131°F)
Heat Deflection Temperature	Load: 1.85 MPa (264 psi)	D-648	°C (°F)	63 (145)	63 (145)
VICAT Softening Temperature	Load: 1 kg (2.2 lb)	D-1525	°C (°F)	75 (167)	75 (167)
Coefficient of Linear Thermal Expansion		D-696	10 ⁻⁵ /°C(10 ⁻⁵ /°F)	6.7 (3.7)	6.7 (3.7)
Thermal Conductivity			W/m K (Btu.-in./hr.-ft. ² -°F)	0.07 (0.49)	0.07 (0.49)
Electrical					
Surface Resistance		D-257	Ohm	5 x10 ¹⁵	5 x10 ¹⁵
Volume Resistance		D-257	Ohm-cm	2 x 10 ¹⁶	2 x 10 ¹⁶

^a Conditions, units and values in U.S. Customary units are presented in the table within parentheses.

^b All the results depicted in this table were obtained by following the indicated ASTM method except where another method is indicated by the appearance of this symbol (b).

► Flammability

PALIGHT sheet 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 table:

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

► Specifications

Color	White*
Units	mm
Thickness	1-10
Width	1220
	1560
	2030
Length	2440
	3050

* Additional Colors are available. Please contact your PALRAM representative or agent for additional details.



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