

PALIGHT® EPS

Material: Rigid Foam PVC

Updated: 2/2/12 (MDW)

Notes: The table depicting the typical properties of PALIGHT® EPS sheets appears below. .

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

Property	Conditions (U.S. Customary)	ASTM Method	Units - SI (U.S. Customary)	Value (U.S. Customary)
Physical				
Density		D-1505	g/cm ³ (lb/ft ³)	0.47-0.50 (29-31)
Water Absorption	24 hr. @ 23°C	D-570	%	0.28
Mechanical				
Flexural Modulus	1.3 mm/min (0.05 in./min)	D-790	MPa (psi)	700-1100 (101,500-159,500)
Notch Impact Strength Izod	23°C (73°F)	D-256	J/m (ft-lbf/in.)	30-66 (.56 - 1.24)
Thermal				
Long Term Service Temperature			°C (°F)	-10 to 55 (14 to 131)
Heat Deflection Temperature	Load: 1.82 Mpa (264 psi)	D-648	°C (°F)	58-61 (136-141)
Vicat Softening Temperature	Load: 1 kg (2.2 lb)	D-1525	°C (°F)	75-77 (167-170)
Coefficient of Linear Thermal Expansion		D-696	10 ⁻⁵ /°C (10 ⁻⁵ /°F)	6.7 (3.7)
Thermal Conductivity		C-177	W/m°K (Btu-in./hr-	0.07 (0.49)
Optical				
Whiteness Index		D-792	WI	90
Electrical				
Surface Resistance	Ketley	D-257	Ohm	5 x 10 ¹⁵
Volume Resistance	Ketley	D-257	Ohm-cm	2 x 10 ¹⁶