



# PALIGHT® Outdoor

Material: Rigid Foam PVC

Updated: 1/12/15 (MDW)

Notes: The table depicting the typical properties of PALIGHT® Outdoor 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)
<b>Physical</b>				
Density		D-1505	g/cm <sup>3</sup> (lb/ft <sup>3</sup> )	0.55-0.60 (35)
Water Absorption	24 hr. @ 23°C	D-570	%	0.5
<b>Mechanical</b>				
Tensile strength at yield	10 mm/min (0.4 in./min)	D-638	MPa (psi)	15 (2,200)
Tensile strength at break	10 mm/min (0.4 in./min)	D-638	MPa (psi)	14.5 (2,100)
Elongation at yield	10 mm/min (0.4 in./min)	D-638	%	5
Elongation at break	10 mm/min (0.4 in./min)	D-638	%	40
Flexural Modulus	1.3 mm/min (0.05)	D-790	MPa (psi)	896 (130,000)
Flexural Strength at Yield	1.3 mm/min (0.05)	D-790	MPa (psi)	28 (4,000)
Hardness (Shore D)		Durometer	Shore D	52-58
<b>Thermal</b>				
Long Term Service Temperature			°C (°F)	-15 to 55 (14 to 131)
Heat Deflection Temperature	Load: 1.82 Mpa (264 psi)	D-648	°C (°F)	60 (140)
Coefficient of Linear Thermal Expansion		D-696	10 <sup>-5</sup> /°C (10 <sup>-5</sup> /°F)	6.7 (3.7)
Thermal Conductivity		C-177	W/m <sup>2</sup> °K (Btu-in./hr-ft <sup>2</sup> -°F)	.87 (0.5)
<b>Electrical</b>				
Surface Resistance	Ketley	D-257	Ohm	5 x 10 <sup>15</sup>
Volume Resistance	Ketley	D-257	Ohm-cm	2 x 10 <sup>16</sup>