TYPICAL PHYSICAL PROPERTIES

PALIGHT®

Property	Test Method	Units -SI	Value
Physical			
Relative Density *	In-house	g/cm³	0.57
Water Absorption	ASTM D-570	%	0.5-0.8
Mechanical			
Tensile Strength at Yield	ASTM D-638	MPa	16
Elongation at Break	ASTM D-638	%	30
Flexural Strength at Yield	ASTM D-790	MPa	28
Flexural Modulus *	ASTM D-790	MPa	900
Charpy Impact Strength	ASTM D-256	J/m	29
Shore D Hardness		value	N/A
Thermal			
Service Temperature *	In-house	°C	-10 to 55
Heat Distortion Temperature *	In-house	°C	63
Vicat Softening Temperature	ASTM D-648	°C	75
Coefficient of Thermal Expansion *	ASTM D-1525	cm/cm°C	6.70
Electrical			
Dielectric Strength	ASTM D-257	Ω	5x101
Surface Resistivity	ASTM D-257	Ω-cm	2x101

Flammability

FOAMED PVC	
Standard	Classification
EN13501	B, s1, d0
BS 476 Part 7	Class 1
UL 94	V-0
NSP 92501,5	M-1, M-2
DIN 4102	B-2

Notes: Foamed PVC has a self-extinguishing property. If ignited in air, it will die by itself. Subsequently, foamed PVC complies with the most demanding fire resistance standards as indicated by these representative results.

The above tables cannot be directly compared due to the different test methods utilised, unless where indicated *. Relative density is stated for 3mm standard products.

● = standard | ○ = non-standard; may be available as ex-stock or secured on a made to order basis subject to minimum order quantity.