

POLYCOR™/P

OVERVIEW

Piedmont Plastics® is proud to offer PolyCor™ P, a specially formulated product made to replace wood or steel.

Traditional building practices utilize wood or steel for flooring, dividers, ramps, and cabinets when building trailers and other vehicles.

Wood, while inexpensive, will warp or rot when exposed to water; and while steel offers better properties, it will still rust and is incredibly heavy, adding unnecessary weight.

PolyCor P does not warp or rot. It is designed to replace these traditional materials in structural applications including flooring, dividers, ramps, and cabinets.

Due to its unique structure, PolyCor P will not break and can be used as a living hinge.

FEATURES & BENEFITS

- Lightweight
- UV Stabilized
- Completely Waterproof
- Excellent Flexural Strength
- Excellent Structural Strength
- Excellent Chemical Resistance



PRODUCT INFORMATION

STANDARD COLORS

- Black
- Additional Colors Available Upon Request

THICKNESS

- 6mm to 21mm

SURFACE FINISHES

- Embossed/ Embossed
- Cubic Grain/ Embossed

ADDITIONAL INFORMATION

- UV-Resistant
- Anti-Skid



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PROPERTIES	TEST METHOD	UNIT	GUIDELINE VALUE
GENERAL PROPERTIES			
Density	DIN EN ISO 1183-1	g / cm ³	0.65
Water Absorption	DIN EN ISO 62	%	< 0.1
Flammability	UL 94		HB
MECHANICAL PROPERTIES			
Yield Stress	DIN EN ISO 527	MPa	18
Elongation at Break	DIN EN ISO 527	%	> 50
Tensile Modulus of Elasticity	DIN EN ISO 527	MPa	1100
Notched Impact Strength	DIN EN ISO 179	kJ / m ²	24
Shore Hardness	DIN EN ISO 868	Scale D	70
THERMAL PROPERTIES			
Melting Temperature	ISO 11357-3	°C	162-167
Thermal Conductivity	DIN 52612-1	W / (m * K)	0.10 - 0.15
Thermal Capacity	DIN 52612	kJ / (kg * K)	1.7
Coefficient of Linear Thermal Expansion	DIN 53752	10 ⁻⁶ / K	120-190
Service Temperature (Long Term)	Average	°C	-100
Service Temperature (Short Term)	Average	°C	150
Vicat Softening Temperature	DIN EN ISO 306, Vicat B	°C	149
ELECTRICAL PROPERTIES			
Dielectric Constant	IEC 60250		2.3
Dielectric Dissipation Factor (106 Hz)	IEC 60250		0.00019
Volume Resistivity	DIN EN 62631-3-1	Ω * cm	> 10 ¹⁴
Surface Resistivity	DIN EN 62631-3-2	Ω	> 10 ¹³
Comparative Tracking Index	IEC 60112		600
Dielectric Strength	IEC 60243	kV / mm	40

