

# 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.

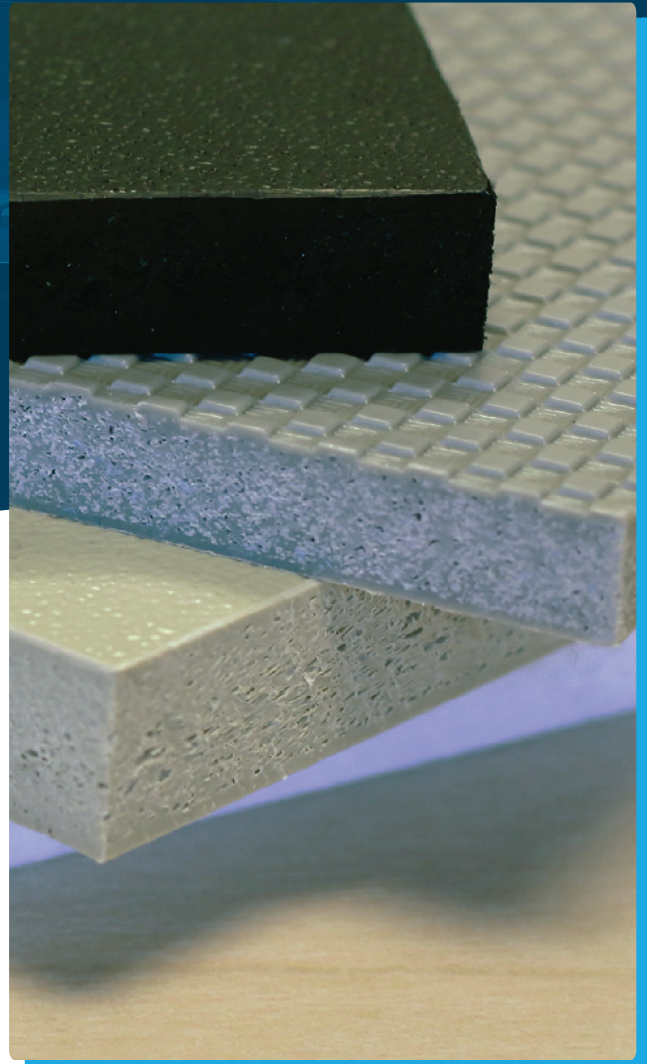
Wood, while inexpensive, will warp or rot when exposed to water; and while steel offers better properties, it will still rust and is incredibly heavy, adding unnecessary weight.

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

PolyCor P allows for an “integrated” hinge. Through a simple 90-degree V-notch milled in the material, the bending fatigue strength of PolyCor P allows the hinge to be folded more than 40,000 times without breaking.”

## FEATURES & BENEFITS

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



## PRODUCT INFORMATION

### STANDARD COLORS

- Black
- Grey
- White
- FDA Blue
- Additional Available Upon Request

### THICKNESS

- 6mm to 21mm

### SURFACE FINISHES

- Embossed/ Embossed
- Cubic Grain/ Embossed

### ADDITIONAL INFORMATION

- UV-Resistant
- Anti-Static
- Anti-Skid

## CONTACT US

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5010 W. W.T. Harris Blvd | Charlotte, NC 28269  
[www.piedmontplastics.com](http://www.piedmontplastics.com)



# Physical Properties

**POLYCOR™ / P**

PROPERTIES	TEST METHOD	UNIT	GUIDELINE VALUE
<b>GENERAL PROPERTIES</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	0.65
Water Absorption	DIN EN ISO 62	%	< 0.1
Flammability	UL 94		HB
<b>MECHANICAL PROPERTIES</b>			
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 <sup>2</sup>	24
Shore Hardness	DIN EN ISO 868	Scale D	70
<b>THERMAL PROPERTIES</b>			
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
<b>ELECTRICAL PROPERTIES</b>			
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 <sup>14</sup>
Surface Resistivity	DIN EN 62631-3-2	Ω	> 10 <sup>13</sup>
Comparative Tracking Index	IEC 60112		600
Dielectric Strength	IEC 60243	kV / mm	40

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