

## SPECIALTY VEHICLE SOLUTIONS

**Ambulances are critical environments that have strict guidelines that all materials used inside must adhere to.**

PolyCor™ VE from Piedmont Plastics is specially designed for ceiling panel applications while also solving another common issue found inside ambulances, scratching.

Scratches are no small matter in an ambulance, as any scratched surface can easily fall out of range for following these strict guidelines.

PolyCor™ VE's specially formulated surface is extremely scratch resistant and is not a painted surface. Even if it did become scratched, the surface properties would remain intact, unlike commonly used painted aluminum surfaces.

## FEATURES

- Ultra-smooth and uniform ceiling material that resists dents and scratches
- Protective film is standard, one side
- High structural strength with a relatively low weight
- Excellent chemical and fire resistance
- Strong electrical and thermal insulation
- Easy to fabricate and thermoform; can be cold formed with v-cuts
- A true multipolymer co-extruded sheet; not a laminate
- Recycled core



## STANDARD DIMENSIONS

Thickness	0.118", 0.197", 0.394" (3mm, 5mm, 10mm)
Length	96"
Width	48"

### CONTACT US

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# Technical Properties

**POLYCOR™ / VE**

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 <sup>-6</sup> / 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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