

POLYCOR™ / HL

SPECIALTY VEHICLE SOLUTIONS

PolyCor™ HL is a specially formulated transportation grade material designed to meet the rigorous demands of the trailer and specialty vehicle industry.

PolyCor HL is a lightweight product used primarily as an interior ceiling application. Unlike traditional products, PolyCor HL is waterproof and will not deteriorate when exposed to moisture, thus eliminating warranty claims.

PolyCor HL is designed with consistent color throughout and can be easily cleaned with standard household cleaning products. Unlike competitive products, there is no 'top coat' to wipe away.



INDIVIDUAL BENEFITS

- Lightweight
- Easily Cleaned
- Reduces Noise
- Completely Waterproof
- Excellent Structural Stability
- Excellent Chemical Resistance

MATERIAL PROPERTIES

PROPERTY	VALUE	SPECIFICATION	TOLERANCE
Gauge	4	mm	± 0.15mm
Density (Grams/ Sq. Meter)	750	g/m ²	± 5%
Surface Tension	46	Dyne	
R-Value (750°F)	.312	ASTM C-177	0.078 x Gauge
WIDTH	MATERIAL SIZE		TOLERANCE
CD (psi)	4mm		± .125"
LENGTH	MATERIAL SIZE		TOLERANCE
Extruder (Off-Line)	< 36"		-0", + .75"
	36" - 66"		-0", + 1.125"
	66" - 96"		-0", + 1.5"
	> 96"		-0", + 2"
SQUARENESS	MATERIAL SIZE		TOLERANCE
Extruder (Off-Line)	< 60"		.375"
	> 60"		.625"
WARP/BOW	MATERIAL SIZE		TOLERANCE
Extruder (Off-Line)	< 96"		.25"
	> 96"		1"

CONTACT US

800.277.7898 Toll Free | 704.597.8200
 5010 W. W.T. Harris Blvd | Charlotte, NC 28269
www.piedmontplastics.com



Physical Properties

POLYCOR™ / HL

PROPERTY	STANDARD	UNIT	VALUE
Gauge		mm	2mm (.080")
Gauge Tolerance		in.	± .006
Skin Thickness	DIN 1784	in.	.008
Skin Tolerance	DIN 1784	in.	± .0008
Weight		lbs/ft ²	.58
Length Tolerance		in.	-.080/+ .157
Width Tolerance		in.	-.080/+ .118
Horizontal Flatness	DIN ISO 1101	in.	.197
Longitudinal Roughness		in.	.315

Technical Properties

PROPERTY	STANDARD	UNIT	VALUE
Section Modulus W	DIN 53293	in ³ /yd	0.103
Rigidity	DIN 53293	kNm ² /m.	0.97
(Poisson's ratio $\mu = .3$) E.I			
Modulus of Elasticity	EN 1999 1-1	lbs/ft ²	10,153,660
Skin Tensile Strength	EN 485-2	lbs/ft ²	≥ 21,030
.2% Proof Stress	EN 485-2	lbs/ft ²	29 ≥ 13,053
Elongation	EN 485-2	%	3
Linear Thermal Expansion	EN 1999 1-1	in/yd/°F	2.4 at 212°F Temp. Diff.
Temperature Range		°F	-58° - 176°



Piedmont partners with specialty vehicle manufacturers, associations, engineers and designers to develop products that enhance quality and cost effectiveness for the Specialty Vehicle Industry.

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