

# POLYCOR™ / AP

## OVERVIEW

**PolyCor™ AP is a specially formulated siding material designed to meet the rigorous demands for trailer siding.**

Traditional aluminum siding is greatly affected by heat and cold, leading to an unsightly effect known as “oil canning.”

PolyCor AP is structurally designed to prevent oil canning even in extreme temperatures, and has a polyester paint that can be easily cleaned with standard household cleaning products. **PolyCor AP makes for a cooler, brighter, quieter and better looking trailer.**

## FEATURES & BENEFITS

- Lightweight
- Easily Cleaned
- Reduces Noise
- Completely Waterproof
- Excellent Structural Stability
- Excellent Chemical Resistance
- Backside Primer
- No Galvanic Corrosion
- Great Thermal Insulation

PolyCOR™ AP is UL compliant.



## PRODUCT INFORMATION

### STANDARD COLORS

- Polar White
- Gloss Black
- Charcoal Grey
- Metallic Silver

### SHEET SIZES (STANDARD COLORS)

- 49" x 96" - 49" x 108"
- 49" x 144"

### VIBRANT & OTHER COLORS

- Victory Red
- Construction Orange
- True Blue
- Brushed Aluminum (Interior Only)
- Indigo Blue
- Champagne
- Caution Yellow
- Sahara Desert
- Lucky Green
- Brandywine

### SHEET SIZES (VIBRANT COLORS)

- 49" x 96"

### SURFACE FINISH

PET Paint 1 Side/Primer 1 side

## MATERIAL COMPARISON

### AVERAGE WEIGHT PER SHEET

PolyCor AP	0.050" Aluminum
0.58 lbs/ft <sup>2</sup>	25% heavier

### R-VALUE

Other Materials	PolyCor
0.040" Aluminum	5x greater
½" OSB	2x greater
½" Plywood	4x greater



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PROPERTY	STANDARD	UNIT	VALUE
Gauge		mm	2mm (.08")
Gauge Tolerance		in.	± .006
Skin Thickness	DIN 1784	in.	.006
Skin Tolerance	DIN 1784	in.	± .0008
Length Tolerance		in.	± .118
Width Tolerance		in.	± .08
Horizontal Flatness	DIN ISO 1101	in.	.197
Longitudinal Roughness		in.	.315
Weight per Sheet		lbs/ft <sup>2</sup>	0.58

## Technical Properties

PROPERTY	STANDARD	UNIT	VALUE
Section Modulus W	DIN 53293	in <sup>3</sup> /yd	0.103
Rigidity (Poisson's ratio $\mu = .3$ ) E.I	DIN 53293	kNm <sup>2</sup> /m.	0.97
Modulus of Elasticity	EN 1999 1-1	lbs/ft <sup>2</sup>	10,153,660
Skin Tensile Strength	EN 485-2	lbs/ft <sup>2</sup>	≥ 21,030
.2% Proof Stress	EN 485-2	lbs/ft <sup>2</sup>	29 ≥ 13,053
Elongation	EN 485-2	%	3
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	2.4 at 100°C Temp diff. Approx: .000156/ft/°F
Temperature Range		°F	-58° - 176°
Thermal Conductivity	ASTM C518	W/(m-k)	0.080
Thermal Resistance (R-Value)	ASTM C518	(m <sup>2</sup> -K)/W	0.027

## Surface Properties

TESTING ITEM	COATINGS	STANDARD INDEX
Coating Thickness (PE)	1 Coating	≥ 16um
Guarantee (PE)		3 - 5 Years

