PIEDMONT SIGN GRADE
PSG ALUPOLY® DIGITAL

DESCRIPTION

Piedmont Sign Grade® AluPOLY® Digital is a versatile aluminum composite material that can be used in a variety of applications and markets.

AluPOLY® Digital is strong and rigid, making it ideal for both indoor and outdoor applications. Additionally, AluPOLY® Digital features a modified surface for better ink adhesion.

FEATURES & BENEFITS

• Anti-corrosion and primer treatments applied to both sides of the aluminum sheet make it impervious to water and most chemicals

• Polyester painted surface accepts most types of ink/paints

• Excellent unltraviolet (UV) ray protection and weatherability

• Easily cut, fabricated, mounted and installed using everyday tools

• Can be digitally printed, screen printed or media applied directly to substrate

• Withstands extreme outdoor conditions

• Increases efficiency, reduces labor, saves time and money

APPLICATIONS

• Interior/Exterior Signage
• Real Estate Signage
• POS/POP
• Exhibition Stands/ Displays
• Temporary Traffic Signage

PSG® AluPOLY® has met UL Compliance as a component for sign accessories in accordance to UL879.

®

PRODUCT AVAILABILITY

SHEET SIZES
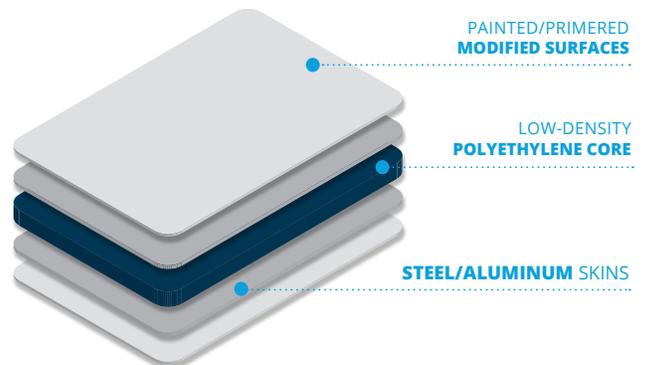• 48x96"
• 48"x120"
• 60"x120"

GAUGES
• 0.118" (3mm)
• 0.236" (6mm)

COLORS
Custom Colors available upon request. Minimum order may be required.

• Black
• White
• Brite White
• Red
• Green
• Blue
• Yellow
• Digital
• Brushed Aluminum
• Brushed Gold
• Brushed Silver

GRADE	SKIN THICKNESS
AluPOLY Economy	**0.004"** (0.12mm)
AluPOLY Standard	**0.006"** (0.15mm)
AluPOLY Premium	**0.008"** (0.20mm)
AluPOLY HS	**0.012"** (0.30mm)

PAINTED/PRIMERED **MODIFIED SURFACES**

LOW-DENSITY **POLYETHYLENE CORE**

STEEL/ALUMINUM SKINS

Piedmont Plastics®

Physical Properties

PANEL THICKNESS	STANDARD	UNITS			3MM (.118)		6MM (.240)
Thickness of Aluminum	DIN 1784	in	.004	.006	.008	.012 (HS)	.008
Aluminum Thickness Deviation	DIN 1784	in	±.0008	±.0008	±.0008	±.0008	-.0008 - .002
Weight	-	lbs/ft^2	.78	.8	.82	.9	1.38
Tolerance in Length	-	in	-.08/+.157	-.08/+.157	-.08/+.157	-.08/+.157	-.08/+.157
Tolerance in Width	-	in	-.08/+.118	-.08/+.118	-.08/+.118	-.08/+.118	-.08/+.118
Tolerance in Thickness	-	in	±.006	±.006	±.006	±.006	±.006
Horizontal Flatness	DIN ISO 1101	in	.197	.197	.157	.118	.118
Longitudinal Roughness	DIN ISO 1101	in	.197	.197	.197	.197	.197

Technical Properties

PANEL THICKNESS	STANDARD	UNITS			3MM (.118)		6MM (.240)
Thickness of Aluminum			.004	.006	.008	.012 (HS)	.008
Section Modulus W	DIN 53293	in^3/yds	.080	.083	.086	.094	.165
Rigidity (Poisson's ratio μ = .3) E.I	DIN 53293	kNm^2/m	.12	.13	.14	.16	.86
Modus of Elasticity	EN 1999 1-1	lbs/in^2		10,153,660			
Tensile Strength of Aluminum	EN 485-2	lbs/in^2		≥ 21,030			
.2% Proof Stress	EN 485-2	lbs/in^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 difference			

Surface Coating

PANEL THICKNESS	STANDARD	UNIT	3MM
Laquering			Polyester
Thickness of Coating		μm	≥ 16
Gloss (Initial Value)	ECCA T2	%	20 - 100
Pencil Hardness	ECCA T4		2H

Thermal Properties

PANEL THICKNESS	STANDARD	UNIT	3MM
Temperature Range	-	°F	-58° - 176°

Piedmont Plastics®