PIEDMONT SIGN GRADE

PSG STEELPOLY®

DESCRIPTION

A proven structural composite material that consists of two external steel skins thermally bonded to a low-density polyethylene (LDPE) core.

Combined, these materials form a structure that is extremely strong and energy absorbent – providing durability, impact resistance and aesthetics for the most demanding applications.

PSG SteelPOLY is a magnetic receptive sheet with a non-ghosting dry erase finish on one side, and an optimized print surface on the other.

COMPOSITION *Based on ECCA Guidelines*

- Protection Foil
- Anneal Laquering
- Steel Layer
- Adhesion
- Polyethylene Core

FEATURES & BENEFITS

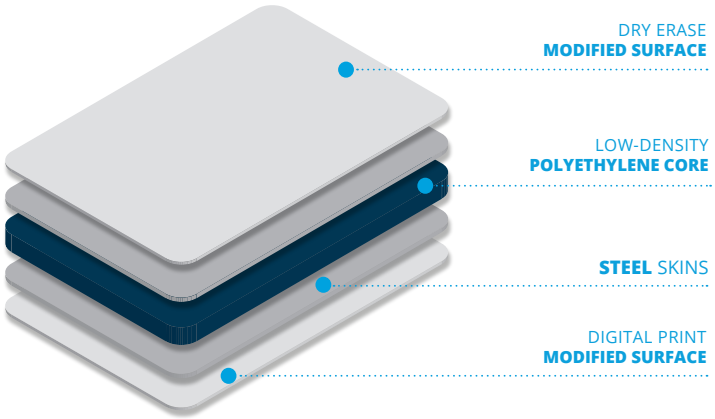
- Strong & durable galvanized steel
- Receptive to magnetic materials
- Printable finish on one side
- Dry erase finish on one side
- Stiffer, self supporting

APPLICATIONS

- POS/POP
- Menu Boards
- Interior/Exterior Signage
- Interior Design
- Real Estate Signage
- Ceiling/Wall Panels
- Monument Signage
- Any Application Where Magnetic Materials Are Used

PRODUCT AVAILABILITY

Panel Thickness	**0.125"** (3mm)
Weight	**1.3 lb/ft²**
Skin	**Galvanized Steel**
Skin Thickness	**0.012"** (0.30mm)
Core Material	**LDPE**
Sheet Sizes	**4'x8'**



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Piedmont Plastics®

Steel Composite Sheets

PIEDMONT SIGN GRADE PSG STEELPOLY

PHYSICAL PROPERTIES	STANDARD	TOLERANCE	UNITS
Tolerance in Length	DIN 16927 / ISO 11833-1	±3	mm
Tolerance in Width	DIN 16927 / ISO 11833-1	±3	mm
Tolerance in Thickness	DIN 16927 / ISO 11833-1	±0.15	mm
Squareness (Maximum difference of diagonal)	-	5	-
Flatness Tolerance (Lengthwise & Crosswise Swelling)	-	-	-
Horizontal Flatness	-	3 on 1000	mm
Longitudinal Roughness	-	5 on 1000	mm
Weight	3mm = 7.11 kg/m^3	-	-

TECHNICAL PROPERTIES	STANDARD	UNITS
Flexural Stiffness	2700	kNcm^2/m
Flexural Module	25000	Mpa
Penetrating Strength	26	KN
Shear Strength	76	Mpa
Thermal Conduction State D.C. Resistance (1/Λ)	0.008	m^{2}K/W
Thermal Conducting Coefficient (U)	5.61	W/m^{2}K
Temperature Durability	-50°C until + 85°C	-
Linear Thermal Expansion	1.8mm/m at 100°C temperature difference	-

ANNEAL LAQUERING	STANDARD
Material	Polyester Laquered Surface
Thickness of Top Coat	18 ± 2 µm
Gloss Level (60°) after Gardner	Matte: 20 - 40 ± 10
Pencil Hardness	Min. F

STEEL LAYER	STANDARD
Steel Quality	Unalloyed Steel
Treatment	Zinc Galvanized
Peeling Force (DIN 53278)	Target > 30 N/cm

ADHESIVE	STANDARD
Base Material	Hot Melt PE Based
Layer Thickness	CA. 50 µm
Peeling Force (DIN 53278)	Target > 30 N/cm

POLYETHYLENE CORE	STANDARD
Material	LDPE
Density	1 kg/m^3

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