

PALBOND Aluminum Composite Panel

Introduction

PALBOND is an advanced multilayered composite panel with specials features for advertising applications. A special colored coating on one side provides a soft and attractive appearance, while PALBOND's robust structure offers extreme toughness and weather resistance for outdoor applications.

Standard Colors*

Property	Standard
Traffic Yellow	1023
Traffic Red	3020
Traffic Blue	5017
Traffic Green	6024
Jet black	9005
Traffic White (Grey coating on back side)	9016
Grey	9006
Silver	-

*Other colors are available, subject to minimum quantity. For more information please contact your PALRAM distributor.

Main Benefits

- Extremely durable No cracking or breaking
- Easily formed No heating required
- High resistance to chemicals and solvents
- Weather resistant For external uses
- Smooth and uniform Visually attractive
- Easily bent, curved, drilled, routed, punched and shaped
- Lightweight

Typical Applications

- Attractive advertising signage
- Traffic signage
- Anti-vandal signage
- Large printed images
- Three dimensional signage



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Typical Physical Properties

	Property	Method	Value
	Weight	ASTM D-792	4.5 Kg/m²
	Service temperature		-50°C to +80°C
	Thermal expansion	ASTM D-696	24 - 28
ш	Flexural rigidity	ASTM C-393	14x10⁵ Kg/mm²
Ξ	Impact resistance	ASTM D-732	1.650 Kgf
ΡΑΝ	Adhesive strength	ASTM D-903	0.78 Kg/mm
0	Flexural elasticity	ASTM D-790	4055 Kg/mm²
_	Minimum bending radius	ASTM D-696	45 mm
	Wind pressure resistance	ASTM E-84	Passed
	Water tightness	ASTM D-331	Passed
	Thickness	ISO-2360 (CNS84)	4.5 Kg/m²
	Gloss	ASTM D532-89	5-80 Kg/m²
	Pencil hardness	ASTM D-3363-74	2H
	Toughness	ASTM D-4145-83	2T, no rift
	Adhesive force	ASTM D-3359-87	100/100 - no peel
U	Impact resistance	ASTM D-2794	No crack
Ζ	Abrasion resistance	ASTM D-968-81	50-80 KTR - No crack
_	Mortar resistance	ASTM D-605.2-90	24Hr - PAT test exceed
ΑT	Humidity resistance	ASTM E-714-87	300Hr - No blister
A	Boiling water resistance	ASTM D-3359-B	Passed
0	Salt spray resistance	ASTM D-117-94	300Hr - No blister
U	Acid resistance	ASTM D-1308-87	No effect
	Alkali resistance	ASTM D-1308-87	Passed
	Solvent resistance	ASTM D-2248-73	Passed
	Color retention	ASTM D-2248-73	E<5
	Chalk resistance	ASTM D-4214-89	Max value: 8 units
	Gloss retention	ASTM D-903	0.78 Kg/mm

Flammability

PALBOND's fire resistance exceeds Class B1 of the DIN 4102 flammability test. PALBOND also performs excellent in flame spread and smoke development tests.

Standard	Classification*
ASTM E-84-04	Up to 1550
BS 476:Part 6&7	Class 0
DIN 4102-1	B1

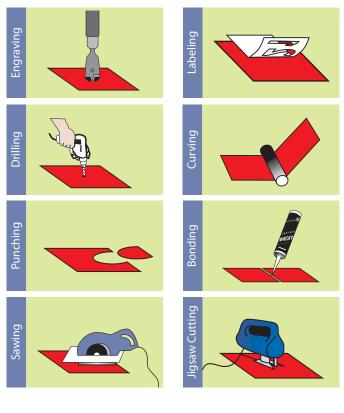
Product Options

3mm 30µm	2, 3, 4, 5, 6mm 27 µ m
•	27 µ m
Polyastar Opacida	
Polyester - One side	PVDF/Polyester - Both sides
2440mm	Up to 6000mm
1220	Up to 1550
8 years	10 years (PVDF)
Standard (See front)	Over 30 available
-	Upon special request
	1220 8 years

*Other dimensions are available, subject to minimum quantity. For more information please contact your PALRAM distributor.

Fabrication

PALBOND offers numerous fabrication options while maintaining its toughness and durability.



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