

OMEGA-BOND® STANDARD

Technical Data Sheet

PRODUCT: Omega-Bond Standard

EFFECTIVE: May 29, 2024

Description: Omega-Bond Standard is a metal composite material (MCM) panel that consists of a thermoplastic core bonded to a finished sheet of aluminum on one or both faces. Panels are intended for use in digital print-ready sign panel applications.

Properties:

Thickness	2mm (nom)	3mm (nom)		4mm (nom)	6mm (nom)
Weight	0.53 psf (+/-)	0.72 psf (+/-)		0.91 psf (+/-)	1.29 psf (+/-)
Sheet Thickness	0.006 in	0.006 in	0.008 in	0.006 in	0.008 in
Panel Size	4'x8'	4'x8'	4'x10' 5'x10'	4'x8'	4'x8' 4'x10'
Sheets (ASTM B209)	1100-H16/H18 Aluminum				
Core	Extruded Solid Polyethylene				
Texture Finish	Smooth				
Color Finish	Polyester				
Thermal Expansion	13.1x10 ⁻⁶ in/in/°F				
Tolerances	(±) 1/4 in (Length & Width) and (±) 1/32 in (Thickness)				
Squareness	Equal Within 1/8" (Diagonals)				
Flatness	< 1/4 in / 4 ft (0.52%)				

Performance:

Fire Performance ¹ (ASTM E84)	Class A Flame Spread Index (FSI) = 22 Smoke Developed Index (SDI) = 400	
Flexural Rigidity (EI) ^{2,3} (ASTM E529)	5.59x10 ³ lb-in ² /ft (3mm)	22.0x10 ³ lb-in ² /ft (6mm)
Warranty ⁴	5 years against bond line delamination	
	5 years against color fade in excess of (8) NBS units and cracking, chipping, flaking, or peeling	

Notes:

1. Values based on Omega-Bond® Economy.
2. Performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction

Go beyond the panel... and go to the next level!

3. No values available for 2mm and 4mm panels.
4. Contact Laminators Inc. for full warranty terms and conditions.

