

OMEGA-BOND® STANDARD

Technical Data Sheet

PRODUCT: Omega-Bond® Standard

EFFECTIVE: September 21, 2021

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 (standard)	2 mm (nom)	3 mm (nom)	4 mm (nom)	6 mm (nom)
Weight	0.53 psf (+/-)	0.72 psf (+/-)	0.91 psf (+/-)	1.29 psf (+/-)
Core	Extruded Solid Polyethylene			
Sheets (ASTM B209)	1100-H16/H18 Aluminum 0.008 in			
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 (ASTM E84) ¹	Class A Flame Spread Index (FSI) = 22 Smoke Developed Index (SDI) = 400		
Flexural Rigidity (EI) (ASTM E529) ²	5.59x10 ³ lb-in ² /ft (3 mm)	22.0x10 ³ lb-in ² /ft (6 mm)	
Warranty ³	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. Performance values are 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. Note that no EI values are available for 2 mm and 4 mm panels.
3. Contact Laminators Inc. for full warranty terms and conditions.



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