

# OMEGA-BOND® PREMIUM

## Technical Data Sheet

**PRODUCT:** Omega-Bond® Premium

**EFFECTIVE:** March 23, 2023

**Description:** Omega-Bond® Premium is a metal composite material (MCM) panel that consists of a thermoplastic core bonded to a finished sheet of aluminum on each face. Panels are intended for use in digital print-ready sign panel applications.

**Properties:**

Thickness (standard)	3mm (nom)	6mm (nom)
Weight <sup>1</sup>	0.80 psf (+/-)	1.37 psf (+/-)
Core	Extruded Solid Polyethylene	
Sheets (ASTM B209)	1100-H16/H18 Aluminum 0.012 in	
Texture Finish	Smooth	
Color Finish	Polyester (White Only)	
Thermal Expansion	13.1x10 <sup>-6</sup> 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)	Class A Flame Spread Index (FSI) = 5 Smoke Developed Index (SDI) = 85	
Flexural Rigidity (EI) <sup>2,3</sup> (ASTM E529)	5.59x10 <sup>3</sup> lb-in <sup>2</sup> /ft (3mm)	22.0x10 <sup>3</sup> lb-in <sup>2</sup> /ft (6mm)
Warranty <sup>4</sup>	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. Value for 6mm panel based on Omega-Bond® Standard.
2. Performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction
3. Values based on Omega-Bond® Standard.
4. Contact Laminators Inc. for full warranty terms and conditions.