

OMEGA-BOND® ECONOMY

Technical Data Sheet

PRODUCT: Omega-Bond® Economy

EFFECTIVE: September 21, 2021

Description: Omega-Bond® Economy 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)
Weight	0.64 psf (+/-)
Core	Extruded Solid Polyethylene
Sheets (ASTM B209)	1100-H16/H18 Aluminum 0.004 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)	Class A Flame Spread Index (FSI) = 22 Smoke Developed Index (SDI) = 400
Flexural Rigidity (EI) ¹ (ASTM E529)	3.63x10 ³ lb-in ² /ft
Warranty ²	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. Performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction.
2. Contact Laminators Inc. for full warranty terms and conditions.