

OMEGA-FLEX™

TECHNICAL DATA SHEET

PRODUCT: Omega-Flex
EFFECTIVE: October 24, 2024

Description: Laminators Inc. Omega-Flex is a composite panel that consists of a thermoplastic core bonded to a texture/color finished sheet of aluminum on one face and a flexible sheet of homopolymer on the other. Panels are intended for use in Laminators Inc. moldings.

Properties:

Thickness	6 mm (nom)
Weight	0.89 psf (+/-)
Core	Extruded Corrugated Polypropylene
Aluminum Sheets (ASTM B209-14)	3003-H14/24, 3105-H14/24 & H26/28, 5005-H34 0.019 to 0.032 in
Homopolymer Sheets	High-Density Polyethylene (HDPE) Resin 0.045 in
Texture Finish	Smooth or Stucco-Embossed
Color Finish (AAMA 2605-22)	PVDF/Kynar 500®, Polyester, or Anodized
Coefficient of Thermal Expansion, α (2015 ADM)	13.1×10^{-6} in/in/°F

Performance:

Fire Performance ¹ (ASTM E84-19b)	Class A Flame Spread Index (FSI) = 0 Smoke Developed Index (SDI) = 20
Flexural Rigidity (EI) ²	Approximately 4.5 to 6.2×10^3 lb-in ² /ft

Notes:

1. Based on Omega-Lite similar panel construction with finished aluminum sheet exposed to flame. Performance values not valid for HDPE sheet exposed to flame.
2. Internal testing 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!