

OMEGA-FLEX™

Technical Data Sheet

PRODUCT: Omega-Flex™
EFFECTIVE: March 15, 2021

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

Properties:

Thickness (standard)	6 mm (nom)
Weight	0.89 psf (+/-)
Core	Extruded Corrugated Polypropylene
Aluminum Sheet (ASTM B209)	3003-H14/24, 3105-H14/24 & H26/28, 5005-H34 0.019 to 0.032 in
Homopolymer Sheet	High-Density Polyethylene (HDPE) Resin 0.045 in
Texture Finish	Smooth or Stucco-Embossed
Color Finish (AAMA 2605)	PVDF/Kynar 500®, Polyester, or Anodized
Thermal Expansion	13.1x10 ⁻⁶ in/in/°F

Performance:

Fire Performance ¹ (ASTM E84)	Class A Flame Spread Index (FSI) = 0 Smoke Developed Index (SDI) = 20
Average Peel Torque ² (ASTM D1781)	23.62 in-lb/in
Flexural Rigidity (EI) ³ (ASTM E529)	Approx. 4.5 to 6.2x10 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. Based on Omega-Lite® finished aluminum sheet bond to core only. Performance value does not account for HDPE sheet bond to core.
3. 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!