

Description

Alumalite® Standard is a metal composite material (MCM) panel that consists of one or more thermoplastic cores bonded to a color finished sheet of aluminum on one face and a color or protected mill finished sheet of aluminum on the other. Panels are intended for use in digital printready sign panel applications.

Properties

Thickness (standard)	6 mm (nom)	10 mm (nom)
Weight	0.67 psf (+/-)	0.88 psf (+/-)
Core	4.7mm Extruded Corrugated Polypropylene Core	(2) 4.7mm Extruded Corrugated Polypropylene Cores
Sheets (ASTM B209)	3003-H26/28, 3105-H26/28 Aluminum 0.012 in.	
Texture Finish	Smooth	
Color Finish (AAMA 2605)	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 Performance¹ (ASTM E84)		
Class	A	A
Flame Spread Index	0	5
Smoke Developed Index	60	200
Flexural Rigidity (EI)² (ASTM E529)	2.40x10 ⁴ lb-in ² /ft	9.03x10 ⁴ lb-in ² /f
Warranty³	5 years against bond line delamination, 10 years against color fade in excess of (8) NBS units and cracking, chipping, flaking, or peeling	

Notes

1. For 10 mm (nom) panel, testing was performed on 25 mm panel due to higher core (combustible) content. Class A results presented are conservatively extrapolated to 10 mm panel.
2. Performed in conjunction with ASTM E529 Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction.
3. Contact Laminators Inc. for full warranty terms and conditions