



# ACM Product Data Sheet

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1.800.231.4175

www.acplastics.com

Aluminum composite material uses a polyethylene core with aluminum facers on each side. ACM is an ultra-smooth, maintenance-free and long-lasting product that is excellent for all types of printing, painting, die-cutting, mounting and vinyl wrapping.

## Tolerances

Thickness	± 0.2
Width	± 2
Length	- 0 / + 4
Diagonal	± 5
Aluminum Thickness	± 0.02
Thermal Expansion	2.4mm/m @ 100°C Temp Difference

## Technical Properties

	<u>2mm</u>	<u>3mm</u>	<u>4mm</u>	<u>6mm</u>
Rigidity - kNcm <sup>2</sup> /m	345	865	1620	3840
Sound Insulation - dB	23	24	25	
Heat Coefficient - W/m <sup>2</sup> K	5.72	5.61	5.50	5.30
Alloy Aluminum	1100			
E-module - N/mm <sup>2</sup>	70.000			
Tensile Strength - N/mm <sup>2</sup>	145-185 RM			
Core, Black PE - g/cm <sup>3</sup>	0.92			
Flammability BS476	Part 6: Class 0, Part 7: Class 1			

## Surface Properties

Paint Thickness	20µm - Enhanced Digital Polyester
Acid Resistance	Immerse surface in 2% HC1 for 48h no change
Alkali Resistance	Immersed surface in 2% NaOH for 24hrs without change
Oil Resistance	Immersed surface in 20# engine oil for 24hrs without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
Gloss Value	35% Matt / 95% Gloss (Tolerance ± 5%)
Pencil Hardness	>HB
Temperature Resistance	- 50°C to + 90°C
Color Variation	5 year ΔE 3
Chalking	5 year index 8
Outdoor Durability	5 year warranty
Indoor Durability	10 year warranty