

ALUMATEX Aluminum Composite Material



Tolerances

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

Technical Properties

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

Alumatex aluminum composite material uses a polyethylene core with aluminum facers on each side. Alumatex 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.