

PLAIN FILM

ALUMINIUM COMPOSITE PANEL

Technical Data Sheet

Panel Dimensions

Panel Thickness (mm)	2	3	4
Aluminium Thickness (mm)	0,26	0,26	0,26
Theor. Weight (kg/m ²)	2.76	3.67	4.62
Standard Sizes (mm)	1500 x 3050	1000 x 4050 1250 x 2500 1500 x 3050/4050 2000 x 3050/4050	1000 x 4050 1250 x 2500 1500 x 3050 2000 x 3050/4050

Dimensional Tolerances

Thickness (mm)	- 0 + 0.2
Width (mm)	± 2
Length (mm)	± 3
Diagonal (mm)	± 5
Thermal Expansion	2.4mm/m @100°C Temp Difference
Aluminium Thickness (mm)	± 0.02

Surface Properties

Paint Thickness (micron)	20
Pencil Hardness	>HB
Toughness of Coating	3T
Temperature Resistance	-50°C to +90°C
Impact Strength (kg cm ²)	48
Boiling Water Resistance	Boiling for 2hrs without change
Acid Resistance	Immerse Surface in 2% HCl for 24Hrs without change
Alkali Resistance	Immersed surface in 2% NaOH for 24Hrs without change
Oil Resistance	Immerse Surface in 20# engine oil for 24hrs without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
Cleaning Resistance	>1000 times without change
Peel Strength 180	>5 Newton / mm

Product Properties

Sound Absorbtion NRC	0.05
Sound Attenuation R _w db	24
Water Absorbtion % By Volume	0.01
Thermal Performance R Values	0.0057
Core Composition	Polyethylene

Note: Please ensure to follow general guidelines for processing Aluminium Composite Panels in view of machining, fabrication and installation considering thermal expansion.