



COMMERCIAL GRADE ALUMINIUM COMPOSITE PANEL

TYPICAL PHYSICAL PROPERTIES

	Units	Value: 3mm	Test Method
Properties Against Water	-	Passed	ASTM E331
Properties Against Air	-	Passed	ASTM E283

MECHANICAL

Flexural Elasticity	kg/mm ²	4055	ASTM D790
Shear Resistance	kgf/mm ²	2.6	ASTM D732
Min. Bending Radius	mm	45-70	ASTM D790
Wind-pressure Resistance		Passed	ASTM E330
Sound Insulation		27	ASTM E413

THERMAL

Thermal Conduction	Kcal/m.hr	0.102	ASTM 976
Impact Resistance	kgf	1.650	ASTM D732
Adhesive Strength	kgf/mm	0.85	ASTM D903
Thermal Deformation temperature		112	ASTM D648
Thermal Expansion		1.6*10 ⁻⁵ -1	ASTM D696

Chemical

Cadmium (Cd)	Mg/kg	ND	IEC 62321:2008
Lead(Pb)	Mg/kg	34	IEC 62321:2008
Mercury(Hg)	Mg/kg	ND	IEC 62321:2008
Hexavalent Chromium (CrVI)	Mg/kg	ND	IEC 62321:2008
Sum of PBBs	Mg/kg	ND	IEC 62321:2008
Sum of PBDEs	Mg/kg	ND	IEC 62321:2008

This information is intended as a guideline for designers and processors of thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

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