



PRODUCT DATA SHEET

COMMERCIAL GRADE ALUMINUM COMPOSITE PANEL

PANEL SPECIFICATIONS

Panel Thickness (mm)	2/3/4/5/6
Aluminium Thickness (mm)	.12/.15/.18/.21/.30/.40/.50
Coating	Polgester/FEVE/PVDF/NaNO/Finish

SURFACE PROPERTIES

Pencil Hardness	>HB
Temperature Resistance	40°C to 80°C
Impact Strength (kg cm2)	50
Boiling Water Resistance	Boiling for 2 hours without change
Acid Resistance	Immersed in 2% HCL for 24 hours without change
Alkali Resistance	Immersed surface in 2% NaOH for 24 hours without change
Oil Resistance	Immersed surface in 20# engine oil for 24 hours without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
Cleaning Resistance	>1000 times without change
Peel Strength 180°	180°>5 Newton/mm
Cold Resistance	- 40°C

	Value	Test Method
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PHYSICAL PROPERTIES

Unit Weight	t3mm=4.6kg/m2	ASTM D792
Outdoor Temperature Resistance	No abnormality	ASTM D1654
Thermal Expansion	$3.0 \times 10^{-5} - 1$	ASTM D696
Thermal Deformation Temperature	115	ASTM D648
Thermal Conduction	0.102 Kcal/m.hr	ASTM 976
Flexural Rigidity	14.0×105	ASTM C393
Impact Resistance	1.650kgf	ASTM D732
Adhesive Strength	0.74kgf/mm	ASTM D903
Sound-insulating Rate	29	ASTM E413
Flexural Elasticity	4055kg/mm2	ASTM D790
Shear Resistance	2.6kgf/mm2	ASTM D732
Minimum Bending Radius	45mm 70mm	ASTM D790
Fire Propagation	qualified	ASTM E84
Smoke Developed	<45	ASTM E84
Wind-pressure Resistance	Passed	ASTM E330
Properties Against Water	Passed	ASTM E331
Properties Against Air	Passed	ASTM E283



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PVDF COAT PROPERTIES

Finish Coat Thickness	27.6m	ISO 2360 (CNS 8406)
Gloss	20-45%	ASTM D532-89
Pencil Hardness	2H	ASTM D3363-00
Toughness	2T no rift	ASTM D4145-83
Adhesive Force	4B	ASTM 3359-97
Impact Resistance	>100kg.cm	ASTM D2794-93
Abrasion Resistance	64.6 L/mil	ASTM D968-93
Mortar Resistance	24 hours pat test exceed	ASTM 605.2-90
Humidity Resistance	3000 hours no blister	ASTM D714-97
		ASTM D2247-02
Boiling-water Resistance	Passed	ASTM D3359-B
Salt-spray Resistance	3000 hours no blister	ASTM D117-03
Acid Resistance	No Effect	ASTM D1308-87
		AAMA 605.2-91, TEST#7, 7.31
Alkali Resistance	Passed	ASTM D1308-87
Solvent Resistance	Passed	ASTM D2248-73
		ECCA T5&NCCA NO. 11-18
Color Retention	E=0.34	ASTM D2244-93
Chalk Resistance	No Chalking	ASTM D4214-98
Gloss Retention	84.20%	ASTM D2244-93