

ALUCOBEST DATA SHEET

Testing item	Standard	Result
Unit weight	ASTM D792	t3mm=4.6kg/m ² t4mm=5.5kg/m ²
Outdoor temperature resistance	ASTM D1654	No abnormality
Thermal expansion	ASTM D696	3.0x10 ⁻⁵ °C ⁻¹
Thermal deformation temperature	ASTM D648	115°C
Thermal conduction	ASTM 976	0.102Kcal/m.hr°C
Flexural rigidity	ASTM C393	14.0x10 ⁵
Impact resistance	ASTM D732	1.650kgf
Adhesive strength	ASTM D903	0.74kgf/mm
Sound-insulating rate	ASTM E413	29
Flexural Elasticity	ASTM D790	4055kg/mm ²
Shear resistance	ASTM D732	2.6kgf/mm ²
Minimum bending radius	ASTM D790	45mm 70mm
Fire propagation	ASTM E84	Qualified
Smoke developed	ASTM E84	<45
Wind-pressure resistance	ASTM E330	Passed
Properties against water	ASTM E331	Passed
Properties against air	ASTM E283	Passed

Testing item	Standard	Result
Finish coat thickness	ISO 2360(CNS 8406) ^o	27.6μm
Gloss	ASTM D532-89	20~45%
Pencil hardness	ASTM D3363-00	2H
Toughness	ASTM D4145-83	2T no rift
Adhesive force	ASTM 3359-97	4B
Impact resistance	ASTM D2794-93	>100kg.cm
Abrasion resistance	ASTM D968-93	64.6 L/mil
Mortar resistance	ASTM 605.2-90	24 Hrs pat test exceed
Humidity resistance	ASTM D714-97	3000hr No blister
	ASTM D2247-02	
Boiling-water resistance	ASTM D3359-B	Passed
Salt-spray resistance	ASTM D117-03	3000hr No blister
Acid resistance	ASTM D1308-87	No Effect
	AAMA 605.2-91, TEST#7,7.31	
Alkali resistance	ASTM D1308-87	Passed
Solvent resistance	ASTM D2248-73	Passed
	ECCA T5&NCCA NO.11-18	
Color retention	ASTM D2244-93	ΔE=0.34
Chalk resistance	ASTM D4214-98	No Chalking
Gloss retention	ASTM D2244-93	84.2%