

ACM Data Sheet

Technical Data					
	Unit				
Product	mm	2	3	4	6
Thickness of cover sheets	mm	0.3			
Weight	kg/m ²	2.90	3.80	4.75	6.60
Section modulus W	cm ³ /m	0.51	0.81	1.11	1.71
Rigidity E·J	kN cm ² /m	345	865	1620	3840
Modulus of elasticity	N/mm ²	70 000			
Tensile strength of cover sheets	N/mm ²	R _m : 145 - 185			
Proof stress (0.2 limit)	N/mm ²	R _{p0.2} : 110 - 175			
Breaking elongation		A ₅₀ > 3%			
Linear thermal expansion		2.0mm/m at 100;C difference in temperature			
Thermal property					
Heat insulation 1/Λ	m ² K/W	0.0047	0.0080	0.0113	0.0180
Thermal transmittance k	W/m ² K	5.72	5.61	5.50	5.30
Temperature resistance	°C	-50~+80			

Weather Resistance Data		
Time	Color Variation	Chalking
	ECCA/T3 ASTM D-2244-89	ASTM D-659-86
	dE	Index: 1-10
5 years	3	8
7 years	3	7
10 years	4	7

Physical Features

Item	Standard Index	Test Value
Weight	ASTM D792	T3mm=4.6kg/m ² T4mm=5.5kg/m ²
Thermal Expansion Coefficient	ASTM D696	24-28
Temperature of Thermal	ASTM D648	115°C
Conductivity of Thermal	ASTM 976	0.102kcal/m.hr°C

Bending Rigidity	ASTM C393	14.0*10 ⁵
Penetrating Resistance	ASTM D732	1.640 kgf
Adherence Intensity	ASTM D903	0.77kg/mm
Bending	ASTM D790	4032kg/mm ²
Cutting Resistance	ASTM D732	2.7kgf/mm ²
Combustion Expansion Coefficient	ASTM E84	Qualified
Performance of wind pressure resistance	ASTM E330	Passed
	ASTM E331	Passed

Thickness and weight of panels with identical rigidity

