

# ALUCOBOND® Information

## TECHNICAL DATA SHEET ALUCOBOND® PE

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CONDITIONS APPLY

Technical Properties	Standard	Units	Panel Thickness		
			3mm	4mm	6mm
Thickness of AL Cover Sheet		[mm]	0.5mm		
Areal Density		[kg/m <sup>2</sup> ]	4.5	5.4	7.3
Panel Width	1000mm, 1250mm, 1500mm, 1575mm				
(Section Modulus <b>W</b> )	DIN 53293	[cm <sup>3</sup> /m]	1.25	1.75	2.75
Rigidity(Poisson's ration $\nu=0.3$ ) <b>E-I</b>	DIN 53293	[kNcm <sup>2</sup> /m]	1250	2400	5900
Alloy Grade	EN 573-3		EN AW-5005 (AlMg1),		
Temper of AL	EN 515		H24 / H44		
Elasticity Modulus of AL	EN 1999 1-1	[N/mm <sup>2</sup> ]	70'000		
Tensile Strength of AL	EN 485-2	[N/mm <sup>2</sup> ]	Rm ≥ 130		
0.2% Proof Stress	EN 485-2	[N/mm <sup>2</sup> ]	Rp0,2 ≥ 90		
Elongation	EN 485-2	[N/mm <sup>2</sup> ]	A50 ≥ 5		
Linear Thermal Expansion	EN 1999 1-1	[%]	2,4 mm /m at 100°C temperature difference		
Core: PE					
Surface			Coil Coating		
Lacquering			Fluorocarbon based (e.g. PVDF, FEVE)		
Gloss, Initial Value	EN 13523-2	[%]	30 – 80		
Pencil Hardness	EN 13523-2		HB - F		
Acoustical Properties					
Sound Absorption Factor $\alpha_s$	ISO 354		0.05		
Sound Transmission Rw	ASTM E90	[dB]	STC: 30 OITC: 24		
Thermal Properties					
Thermal Resistance R	ASTM C518	[m <sup>2</sup> K/W]	0.007	0.009	0.0172
Temperature Resistance		[° C]	-50 to +80		

# Kaneba™

ALUCOBOND®  
40+ years  
of excellence



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