

iBOND® (Advertising)

Aluminum Composite Panel

	DIN 1784		0.3	0.3	0.3	0.3
	DIN 1784		±0.01	±0.01	±0.01	±0.01
Weight		Kg/m ²	2.92	3.85	4.76	6.75
Tolerance in length	DIN 16927 / ISO 11833-1		- 0 / +2	- 0 / +2	- 0 / +2	- 0 / +2
Tolerance in width	DIN 16927 / ISO 11833-1		- 0 / +1.5	- 0 / +1.5	- 0 / +1.5	- 0 / +1.5
Tolerance in thickness	DIN 16927 / ISO 11833-1		± 0.15	± 0.10	± 0.10	± 0.15
Horizontal flatness	DIN ISO 1101					
Longitudinal roughness	DIN ISO 1101					
Technical Properties						
Section Modulus W						
Rigidity (Poisson's ratio $\mu = 0.3$) E.J	DIN 53293	kNm ² /m	0.67	0.14	0.28	0.63
	EN 573-3	ENA W	1100			
Temper of Cover Sheets	EN 515					
Modulus of Elasticity		N/ mm ²	70,000			
Tensile Strength of Aluminium		N/ mm ²	R _m ≥ 145			
0.2% Proof Stress	EN 485-2	N/ mm ²	R _{p0.2} ≥ 100			
Elongation	EN 485-2	%	A ₅₀ ≥ 2			
Linear Thermal Expansion	EN 1999 1-1	mm/ m°C	2.4 at 100°C Temp difference			
Core						
Polyethylene, Typ LD-PE		g/cm ³	0.935			
Surface			Coil Coating			
Lacquering			Fluorocarbon based (PE)			
Thickness of coating		µm	≥16	≥16	≥16	≥16
Gloss (initialvalue)	ECCA T2	%	20 - 100			
Pencil Hardness	ECCA T4		2H			
A cousticalProperties						
Sound Absorption Factor α_w	ISO 354		0.05			
Sound Transmission Loss R _w	ISO 717-1	DB	23	25	26	28
Loss Factor d	EN ISO 6721		0.0062	0.0072	0.0087	0.0138
Thermal Properties						
Thermal Resistance R	DIN 52612	m ² /KW	0.0036	0.0069	0.0103	0.0172
		W/m ² /K	5.98	5.65	5.54	5.34
Temperature Range		°C	-50...+80			

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