



TECHNICAL DATASHEET

DIBOND®

Aluminium composite sheets

PROPERTY	UNIT	VALUE				STANDARD	VARIABLE
		2 mm	3 mm	4 mm	6 mm		
General		2 mm	3 mm	4 mm	6 mm		
Aluminium thickness	mm	0,3					
Weight	kg/m ²	2,9	3,8	4,75	6,6		
Core density, polyethylene, type LDPE	g/cm ³	0,92					
Alloy of aluminium layer		EN AW-5005A (AlMg1), H44				EN 485-2	
Lacquering		Modified-Polyester-Coating					
Gloss (initial value)	%	25 - 85					
Mechanical							
Section modulus (W)	cm ³ /m	0,5	0,8	1,1	1,7		
Rigidity (E*I)	kNcm ² /m	345	865	1620	3840		
Modulus of elasticity	N/mm ²	70.000					
Tensile strength of aluminium	N/mm ²	R _m 145 - 185					
Proof stress	N/mm ²	R _{p0,2} 110 - 175					
Elongation	%	A50 ≥ 3					
Thermal							
Lineair thermal expansion		2,4 mm/m at 100 °C temperature difference					
Thermal resistance (1/λ)	m ² K/W	0,0047	0,0080	0,0113	0,0180		
Thermal transmission coefficient (k)	W/m ² K	5,72	5,61	5,50	5,30		
Temperature resistance	°C	- 50 to +80					
Acoustical							
Sound absorption factor (α _s)		0,05					
Sound transmission loss (R _v)	dB	23	24	25	26		
Loss factor (d)		0,0048	0,0057	0,0072	0,0102		

The technical data given in this sheet correspond to our current state of knowledge and should not be construed as an agreement or guarantee regarding certain properties of our products. The decision on the suitability of a particular material for a specific application is up to the user. We reserve the right to modify the given data. Errors of the given data are reserved.