DIBOND®

DIBOND® FR

Technical data sheet

Panel thickness :			**2 mm**	**3 mm**	**4 mm**
Thickness of aluminum layer			0.30 mm		
Weight		[kg/m²]	3.83	5.40	6.98
Technical Properties :					
Section Modulus	W	[cm³/m]	0.51	0.81	1.11
Rigidity	E·I	[kNcm²/m]	345	865	1620
Alloy of Aluminum layer			EN AW-5005 (AlMg1), H44, according EN 485-2		
Modulus of Elasticity		[N/mm²]	70'000		
Tensile Strength of Aluminum		[N/mm²]	R_m 145 - 185		
Proof Stress (0.2)		[N/mm²]	$R_{p0.2}$ 110 - 175		
Elongation		[%]	$A_{50} \geq$ 3		
Linear Thermal Expansion			2.4 mm/m at 100°C temperature difference		
Core :					
Mineral filled polymer					
Surface :					
Lacquering			Modified-Polyester-Coating		
Gloss (Initial value)			30 -85 %		
Hardness (pencil hardness)			HB – F		
Note:			The surface quality for high-gloss and mirror surfaces can be slightly different from standard DIBOND® due to the modified DIBOND® FR core.		
Acoustical Properties :					
Sound Absorption Factor	α_s		0.05		
Fire-Classification :					
Class B – s1,d0 according DIN EN 13501-1					
Range of Application		[°C]	-50…+80		

CDS 11/2017

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