DIBOND®

Technical Data Sheet DIBOND®

Panel thickness :			**2 mm**	**3 mm**		
Thickness of aluminium layer			0.30 mm			
Weight		[kg/m²]	2.90	3.80		
Technical Properties :						
Section Modulus	W	[cm^3/m]	0.51	0.81		
Rigidity	E·I	[$kNcm^2$/m]	345	865		
Alloy of Aluminium layer			EN AW-5005A (AlMg1), H44, according EN 485-2			
Modulus of Elasticity		[N/mm^2]	70'000			
Tensile Strength of Aluminium		[N/mm^2]	R_m 145 - 185			
Proof Stress (0.2)		[N/mm^2]	$R_{p0.2}$ 110 - 175			
Elongation		[%]	$A_{50} \geq$ 3			
Linear Thermal Expansion			2.4 mm/m at 100°C temperature difference			
Core :						
polyethylene, type LDPE		[g/cm^3]	0.92			
Surface :						
Lacquering			Modified-Polyester-Coating			
Gloss (Initial value)			30 - 85 %			
Hardness (pencil hardness)			HB - F			
Schalltechnische Eigenschaften:						
Sound Absorption Factor	α_S		0.05			
Sound Transmission Loss	R_W	[dB]	23	24		
Loss Factor	d		0.0048	0.0057		
Thermal Properties :						
Thermal Resistance	1/Λ	[m^2K/W]	0.0047	0.0080		
Thermal Transmission Coefficient	k	[W/m^2K]	5.72	5.61		
Range of Application		[°C]	-50…+80			

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