Technical Data Sheet DIBOND® traffic

Panel thickness :	Standard	Units	3 mm
Thickness of Aluminium Layers		[mm]	0.30
Weight		[kg/m²]	3.80
Technical Properties :			
Section Modulus W	DIN 53293	[cm³/m]	0.81
Rigidity (Poisson's ratio μ = 0.3) E·I	DIN 53293	[kNcm²/m]	865
Alloy of Aluminium Layers	EN 573-3		AlMg 1 (EN AW-5005)
Temper	EN 515		H44
Modulus of Elasticity	EN 1999 1-1	[N/mm²]	70'000
Tensile Strength of Aluminium	EN 485-2	[N/mm²]	R_m 145 - 185
0.2% Proof Stress	EN 485-2	[N/mm²]	$R_{p0.2}$ 110 – 175
Elongation	EN 485-2	[%]	A_{50} ≥ 3
Linear Thermal Expansion	EN 1999 1-1		2.4 mm / m at 100°C temperature difference
Core :			
Polyethylene, Typ LDPE		[g/cm³]	0.92
Composition :			Advanced durability
Surface :			
Lacquering			Coil Coating Mod. Polyester-System adapted for the lamination of reflective sheeting.
Gloss (initial value)	EN 13523-2		30 – 35
Pencil Hardness	EN 13523-4		HB – F
Corrosion and Impact (according to clauses 5.3.5 and 5.3.7)	EN 12899-1		passed
Range of Application		[°C]	-50...+80
Quality :	Quality management according to ISO TS 16949 Inspection certificate 3.1 according to EN 10204 is available with this product.		
Warranty :	as a substrate for road traffic signs is available upon request		

ALCAN COMPOSITES
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