

Reynobond® Engineering Properties

Technical Engineering Properties

Reynobond® is a 3mm sheet of solid aluminum plate.

U.S. and Metric Equivalent

PROPERTY	Units	Reynobond® 3mm Mill Finish Plate	Reynobond® 3mm Coil Coated Plate
THICKNESS	in mm	0.118 3.0 (Nominal)	0.118 3.0 (Nominal)
THICKNESS TOLERANCE	in mm	+/- 0.007 0.18	+/- 0.007 0.18
AVAILABLE WIDTH	in mm	50, 62, 72 1270, 1575, 1829	50, 62 1270, 1575
WIDTH TOLERANCE	in mm	+/- 0.125 3.18	+/- 0.125 3.18
LENGTH TOLERANCE	in mm	-0, +0.25 -0, +6.35	-0, +0.25 -0, +6.35
WEIGHT	lb/ft ² kg/m ²	1.7 8.3	1.7 8.3
ALLOY AND TEMPER	N/A	3003 H16	3003 H16
ALLOWABLE BENDING STRESS	lb/in ² MPa	12,618 87	12,618 87
COEFF. OF EXPANSION	in/in/°F mm/mm/°C	1.28x10 ⁻⁵ 2.3x10 ⁻⁵	1.28x10 ⁻⁵ 2.3x10 ⁻⁵
YIELD STRENGTH	lb/in ² MPa	21,030 145	21,030 145
MOMENT OF INERTIA (I)	in ⁴ /in cm ⁴ /m	1.44x10 ⁻⁴ 5.9x10 ⁻³	1.44x10 ⁻⁴ 5.9x10 ⁻³
SECTION MODULUS	in ³ /in cm ³ /m	2.4x10 ⁻³ 0.039	2.4x10 ⁻³ 0.039
TENSILE YIELD	lb/in ² MPa	27,000 186	27,000 186
BENDING / FOLDING	N/A	Routed grooves should leave 0.032" (0.7mm) of material to achieve 90° folds. Un-routed material should maintain a minimum 2T inner bending radius.	
FINISH / PERFORMANCE	N/A	Mill Finish	Coil Coated with 2 or 3 coat PVDF meets AAMA 2605/2604
COMBUSTIBILITY PERFORMANCE	Passed	Non-Combustible ASTM E136	Non-Combustible / Class A ASTM E136 / ASTM E84

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