

Reynodual® panels Engineering Properties Data Sheet

Engineering Properties

Reynodual® panels consist of two coil coated 1.5 mm (1/16") aluminum sheets bonded together using Arconic® Architectural Products LLC's aluminum bonding technology, yielding a total thickness of 3.3 mm (1/8").

U.S. and Metric Equivalent

PROPERTY	Units	Reynodual® panels
THICKNESS	in mm	From 0.120 to 0.130 3.3
WEIGHT	lb/ft ² kg/m ²	1.77 8.64
MIN. BOND STRENGTH ASTM D1876	in-lb/in Nm/m	25 103
ALLOWABLE BENDING STRESS	lb/in ² MPa	11,500 79.3
COEFF. OF EXPANSION ASTM E228	in/in/°F mm/mm/°C	0.131x10 ⁻⁵ 2.36x10 ⁻⁵
STIFFNESS (EI) ASTM D393	lb-in ² /in MPa-cm ⁴ /m	2,400 2.7x10 ⁴
MOMENT OF INERTIA	in ⁴ /in cm ⁴ /in	2.37x10 ⁴ 0.39
YIELD STRENGTH ASTM E8	lb/in ² MPa	23.3 160
ELASTIC MODULUS ASTM E8	lb/in ² GPa	9.7x10 ⁶ 66.9
FLEXURAL MODULUS ASTM C393	lb/in ² MPa	13.7x10 ⁶ 9.4x10 ⁴
WIDTH	in mm	62 1,575
MAXIMUM LENGTH	in mm	243 6,172

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