

# 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 (AAP) aluminum bonding technology, yielding a total thickness of 3.3 mm (1/8").

## U.S. and Metric Equivalent

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

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