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♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

## EPOXY RESIN RBC #2106

RBC #2106 is a two-part thermally conductive epoxy adhesive that sets within five minutes after mixing. It is ideal for applications that require a quick bond. This product exhibits excellent adhesion to metal, glass, wood, and plastics. RBC #2106 offers superior resistance to elevated temperatures. In addition to traditional packaging, #2106 is available in a pre-measured field kit for quick, on-the-job repairs.

### HANDLING PROPERTIES:

Mixed Viscosity @ 25°C, cps	Thixotropic
Shelf Life, (closed Container @ 25°C)	12 Months

### PHYSICAL PROPERTIES (CURED):

Color	grey/
Specific Gravity @ 25°C	1.21
Hardness, Shore D	78
Linear Shrinkage, in./in.	0.012
Moisture Absorption 10 Days @ 25°C, %	0.65
Izod Impact Strength, ft. lbs./in. of notch	0.75
Bond Shear Strength, psi, Al/Al @ 25°C	2,000
Tensile Strength @ 25°C, psi	3,500
Compressive Strength @ 25°C, psi	20,000

### THERMAL PROPERTIES (CURED):

Thermal Conductivity, cal/sec/cm <sup>2</sup> /°C/cm X 10 <sup>-4</sup>	20.1
Thermal Stability, 1000 Hrs. @ 175°C, % Wt. Loss	1.30
Coefficient of Thermal Expansion, in./in./°C X 10 <sup>-6</sup>	53
Heat Distortion temperature, °C	95
Operating Temperature Range, °C	-55 to 140

### ELECTRICAL PROPERTIES (CURED):

Volume Resistivity @ 25°C, ohm-cm	5x10 <sup>14</sup>
Dielectric Strength, volts/mil	380
Dielectric Constant @ 25°C, 100 KC	3.4
Dissipation Factor @ 25°C, 100 KC	0.018

**MIXING INSTRUCTIONS:** Mix one part #2106 Resin with one part #2106 Hardener by volume. Mix thoroughly by hand for at least two minutes or machine mix for at least one minute. Be sure mixture is homogeneous to ensure maximum bonding strength. Whenever necessary, entrapped air may be removed by vacuum prior to use.

Mix Ratio of Resin to Hardener (by volume)	1 to 1
Pot Life (100 grams @ 25°)	3 mins.
Cure Schedule	5 mins. @ 25°C



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