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♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

## EPOXY RESIN RBC #2360

RBC #2360 is a modified, low-viscosity resin offering excellent wettability and air release. It is used both as an adhesive and potting resin. It exhibits high peel strength, excellent shock and vibration resistance. It is ideal for bonding materials with different coefficients of thermal expansion. It bonds well to nickel, aluminum, nylon, polypropylene, glass and wood. As a room temperature potting compound, it offers long pot life, low exotherm, and good thermal and mechanical shock resistance.

### HANDLING PROPERTIES:

Mixed Viscosity @ 25°C,cps	3,000
Pot Life	1-2 hours
Shelf Life, (closed Container @ 25°C)	12 Months

### PHYSICAL PROPERTIES (CURED):

Color	Light amber
Specific Gravity @ 25°C	1.07
Hardness, Shore D	40
Linear Shrinkage, in./in.	0.005
Moisture Absorption 10 Days @ 25°C, %	0.55
Izod Impact Strength, ft. lbs./in. of notch	11.25
Bond Shear Strength, psi Al/Al @ 25°C	4,500
Tensile Strength @ 25 deg. C, psi	3,500
Compressive Strength @ 25°C, psi	8,000

### THERMAL PROPERTIES (CURED):

Thermal Conductivity, cal/sec/cm <sup>2</sup> /°C/cm X 10 <sup>-4</sup>	5.20
Thermal Stability, 1000 Hrs. @ 175°C, % Wt. Loss	1.25
Coefficient of Thermal Expansion, in./in./°C X 10 <sup>-6</sup>	45.0
Operating Temperature Range, °C	-55 to 100

### ELECTRICAL PROPERTIES (CURED):

Volume Resistivity @ 25°C, ohm-cm	8 x 10 <sup>12</sup>
Dielectric Strength, volts/mil	430
Dielectric Constant @ 25°C, 100 KC	3.3
Dissipation Factor @ 25°C, 100 KC	0.018

The above properties are typical of a semi-flexible formulation cured for 1 hr @ 65°C and 1 hr. @ 120°C.

**MIXING INSTRUCTIONS:** Weigh the desired amount of #2360 Resin into a clean container and combine with AB-528 Hardener in one of the ratios shown below. Mix thoroughly for a minimum of three minutes by hand, or one minute by machine.

Semi-Flexible, Impact and Shock Resistant	100 parts RBC #2360 100 parts Hardener AB-528
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Flexible, Excellent Peel Strength	100 parts RBC #2360 132 parts Hardener AB-528
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**RECOMMENDED CURE STRENGTH:** Pot life ranges from 1 - 2 hours depending on batch size and hardener ratio. Cure for 24 hours at room temperature (25°C) or 2 hours at 65°C. For optimum properties, cure 1 hour at 65°C followed by 1 hour at 120°C.