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♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

## EPOXY RESIN RBC #5300

RBC #5300 is a one-part, thixotropic resin designed for use as protective coating. It offers high heat distortion, excellent chemical resistance, and long working time. RBC #5300 exhibits non-flow, non-sag characteristics during application and cure. RBC#5300 also lends itself to adhesive applications for bonding glass, wood, and metals to themselves or each other.

### HANDLING PROPERTIES:

Viscosity @ 25°C,cps	Thixotropic Paste
Shelf Life, (Closed Container @ 25°C)	6 months

### PHYSICAL PROPERTIES (CURED):

Color	Translucent
Specific Gravity @ 25°C	1.20
Hardness, Shore D	88
Linear Shrinkage, in./in.	0.010
Moisture Absorption 10 Days @ 25°C, %	0.20
Izod Impact Strength, ft. lbs./in. of notch	0.35
Tensile Strength @ 25°C, psi	6,000
Compressive Strength @ 25°C, psi	14,500

### THERMAL PROPERTIES (CURED):

Thermal Conductivity, cal/sec/cm <sup>2</sup> /°C/cm X 10 <sup>-4</sup>	5.2
Thermal Stability, 1000 Hrs. @ 175°C, % Wt. Loss	0.25
Coefficient of Thermal Expansion, in./in./°C X 10 <sup>-6</sup>	45
Heat Distortion Temperature, °C	130
Operating Temperature Range, °C	-65 to 145

### ELECTRICAL PROPERTIES (CURED):

Volume Resistivity @ 25°C, ohm-cm	7x10 <sup>15</sup>
Dielectric Strength, volts/mil	450
Dielectric Constant @ 25°C, 100 KC	3.8
Dissipation Factor @ 25°C, 100 KC	0.030

### RECOMMENDED SCHEDULE:

CURE @121°C for 30 min.