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♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

Epoxy Resin RBC #3150

RBC-3150 epoxy resin with AB-165 epoxy hardener is an unfilled, very flexible elastomeric type epoxy system offering low viscosity, high clarity and excellent shock properties for stress free parts. Typically RBC-3150 is used as an epoxy potting compound or for epoxy encapsulating where ease of repairability is desired.

HANDLING PROPERTIES:

Mixed Viscosity @ 25°C, cps	1,000
Shelf Life, (closed Container @ 25°C)	12 months

PHYSICAL PROPERTIES (CURED):

Color	Clear
Specific Gravity @ 25°C	1.03
Hardness, Shore D	80
Linear Shrinkage, in./in.	0.002
Moisture Absorption 10 Days @ 25°C, %	0.30
Izod Impact Strength, ft. lbs./in. of notch	1.4
Tensile Strength @ 25°C, psi	2,800
Compressive Strength @ 25°C, psi	4,950

THERMAL PROPERTIES (CURED):

Thermal Conductivity, cal/sec/cm ² /°C/cm X 10 ⁻⁴	5.10
Thermal Stability, 1000 Hrs. @ 175°C, % Wt. Loss	0.62
Coefficient of Thermal Expansion, in./in./°C X 10 ⁻⁶	52
Operating Temperature Range, °C	-65 to 130

ELECTRICAL PROPERTIES (CURED):

Volume Resistivity @ 25°C, ohm-cm	6x10 ¹³
Dielectric Strength, volts/mil	425
Dielectric Constant @ 25°C, 100 KC	4.0
Dissipation Factor @ 25°C, 100 KC	0.021

MIX RATIO BY WEIGHT: 100 parts resin to 70 parts hardener

MIX RATIO BY VOLUME: 100 parts resin to 80 parts hardener

RBC #3150 Continued

MIXING INSTRUCTIONS: Weigh the desired amount of RBC-3150 Epoxy Resin into a clean container and combine with recommended amount of **AB-165** Epoxy Hardener. Mix thoroughly. Entrapped air may be removed by vacuum.

RECOMMENDED CURE SCHEDULE:

Pot Life @ 25°C	50-60 Minutes
Cure Time @ 25°C	72 Hours
@ 65°C	4-8 Hours
@ 100°C	2-4 Hours