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◆ TECHNICAL BULLETIN ◆ TECHNICAL BULLETIN ◆ TECHNICAL BULLETIN ◆

EPOXY RESIN RBC #5200

RBC #5200 is a low viscosity, solventless coating which can be applied by brushing, dipping, or by spraying. The cured film is a transparent coating offering good chemical and moisture resistance as well as good adhesion to most substrates. RBC #5200 can be combined with several different hardeners for room temperature or elevated temperature cures to obtain specific properties. It can be used for coating printed circuit boards, transformers, heat sink components, or as a general purpose coating for any plastic, metal, or ceramic part.

HANDLING PROPERTIES:

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Mixed Viscosity @ 25°C,cps	500
Shelf Life, (closed Container @ 25°C)	12 Months
PHYSICAL PROPERTIES (CURED):	
Color	Clear
Specific Gravity @ 25°C	1.08
Hardness, Shore D	78
Linear Shrinkage, in./in.	0.006
Moisture Absorption 10 Days @ 25°C, %	0.30
Izod Impact Strength, ft. lbs./in. of notch	0.90
Tensile Strength @ 25°C, psi	12,800
Compressive Strength @ 25°C, psi	18,000
THERMAL PROPERTIES (CURED):	
Thermal Conductivity, cal/sec/cm ² /°C/cm X 10 ⁻⁴	5.30
Thermal Stability, 1000 Hrs. @ 175°C, % Wt. Loss	0.55
Coefficient of Thermal Expansion, in./in./°C X 10 ⁻⁶	53
Heat Distortion Temperature, °C	100
Operating Temperature Range, °C	-65 to 100
ELECTRICAL PROPERTIES (CURED):	
Volume Resistivity @ 25°C, ohm-cm	4x10 ¹⁶
Dielectric Strength, volts/mil	475
Dielectric Constant @ 25°C, 100 KC	4.2
Dissipation Factor @ 25°C, 100 KC	0.035
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The above properties are typical of a system cured with Hardener #AB-410.

RECOMMENDED HARDENERS:

A-110	A rigid, room temperature curing system with limited pot life and fast cure.
AB-410	A resilient, low viscosity system with longer pot life, that exhibits excellent resistance
	to thermal shock, and very high impact strength.
AB-312	Good resistance to heat, chemicals, thermal and mechanical shock, and good

electrical properties at high humidity.

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MIXING INSTRUCTIONS: Weigh the desired amount of #5200 Resin into a clean container and combine with recommended hardener in the proper ratio as shown below.

Hardener	Parts by wt.	Pot Life	
	per 100 pts. resin	100 grms. @ 25°C.	
A-110	14	45-60 mins.	
AB-410	50	2 hrs.	
AB-312	32	4 hrs.	

RECOMMENDED CURE SCHEDULE:

HARDENER	CURE@25°C	CURE@65°C	CURE@100°C	CURE@130°C
A-110	24 Hrs.	2 Hrs.		
AB-410	24 Hrs.	2 Hrs.		
AB-312		5 Hrs.	3 Hrs.	2 Hrs.

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