

20-3650

ONE TO ONE RATIO

EPOXY POTTING AND ENCAPSULATING COMPOUND

DESCRIPTION:

20-3650 is an easy to use, one to one ratio, electronic grade epoxy potting, casting, and encapsulating system. This system exhibits excellent physical, thermal, and electrical insulation properties. 20-3650 is D.O.T. non-hazardous, easy to mix, and will cure at room temperature or with mild heat.

20-3650 is low in viscosity and ideal for meter mix and dispensing equipment.

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps	
Resin	25,000
Catalyst	12,000
Mixed	18,000
Mix Ratio, (Resin:Catalyst)	
By Weight	1:1
By Volume	1:1
Color	
Resin	Black
Catalyst	White
Mixed	Dark Grey
Hardness, Shore D	75
Operating Temperature Range, °C	-60 to +150
Pot Life, 100 grams, 25°C	60 minutes
Specific Gravity, 25°C	
Resin	1.5
Catalyst	1.5
Tensile Strength, psi	11,000
Compressive Strength, psi	15,500
Linear Shrinkage, in/in	0.004
Thermal Conductivity, W/m-K	0.61
Thermal Expansion Coefficient, °C	27 x 10 ⁻⁶
Dielectric Strength, V/mil	460
Dielectric Constant, 60 Hz	4.3
Dissipation Factor, 60 Hz	0.02
Volume Resistivity, ohm-cm	2.1 x 10 ¹⁵

INSTRUCTIONS FOR USE:

1. Some settling of fillers is common during transportation and storage. Remix individual components before using.
2. By weight or volume mix equal parts 20-3650 Resin and Catalyst. Mix thoroughly being careful not to introduce excessive air into the mixture.
3. Pour and allow material to cure according to one of the following schedules:

a) 25°C	24 hours
b) 65°C	1 hour
c) 100°C	15 minutes

STORAGE, HANDLING & SAFETY:

Store both components at 25 °C in original containers. The expected shelf life is 12 months in original containers.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

20-3650 is available in quart and gallon containers.

IMPORTANT:

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