



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

27×10^{-6}

Dielectric Strength, V/mil

460

Dielectric Constant, 60 Hz

4.3

Dissipation Factor, 60 Hz

0.02

Volume Resistivity, ohm-cm

2.1×10^{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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