

# TIM-PC 8017

## Thermally Conductive Potting Compound

### DESCRIPTIONS

**TIM-PC 8017** is a **Non-Corrosive and Non-Hazmat**. It is highly filled, thermally conductive, room temperature curing epoxy system designed for potting and encapsulating of high voltage electrical/electronic components. This low viscosity system can be handled easily at room temperature; it cures in a relatively short time at elevated temperature. It has a low coefficient of thermal expansion, good dielectric properties and excellent chemical and solvent resistance.

**Applications:** Typical Applications includes potting or encapsulating densely packaged power supplies, integrated circuits, small transformers, capacitors bushings etc. Excellent heat transfer, high voltage insulation and dimensional stability over a wide temperature range.

### INSTRUCTION FOR USE

1. Weigh each 100 grams of Resin (Part-A), add amount of required hardener
2. Mix until uniform preferably using mechanical mixer. Vacuum to remove entrapped air
3. Apply to clean bonding surfaces and cure as recommended to achieve the desired properties.
4. Typical cured properties were determined using recommended cure schedule. Some difference in properties may occur with the alternate or other cure schedules.

**Note:** Refer to Safety Data Sheet (**SDS**) for additional health and safety information.

### AVAILABILITY

2 Parts Kits: 1 Quart, 1 gallon & 5 gallon pail.

Property	Results
<b>Special Future</b>	DOT/IATA Non-Hazmat High Thermal Conductivity. Low CTE
Type	Two Parts
<b>Hardener</b>	<b>TH-40</b>
Mix Ratio by Wt (A/H)	100/12
Color	Black
Shelf Life	12 months@ 25°C
Mixed Viscosity @25°C cp	20,000
Gel Time (Pot Life) (100 grams)	3 hrs @ 25°C
Cure Schedule	24-48 hrs@ 25°C or 2 hrs @ 65°C
<b>Cured Properties</b>	
Hardness (Shore D )	D-93
Glass Transition Temperature	75°C
Flexural Strength	13,800psi
Service Temperature Range	-55°C to 150°C
<b>THERMAL</b>	
Thermal Conductivity (W/m-K)	<b>1.6</b>
<b>ELECTRICAL</b>	
Dielectric Strength (Volts/Mil)	460
Volume Resistivity (Ohm-cm)	10 <sup>15</sup>

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