

TIM-PC 8015

Thermally Conductive Potting Compound

DESCRIPTIONS

TIM-PC 8015 is a low viscosity, easily pourable, filled epoxy resin system featuring high thermal conductivity, good electrical insulation, fire retardant, and low shrinkage during cure. It is useful for potting and encapsulating components and modules where removal of heat and resistance to mechanical and thermal shock are prime considerations.

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
Special Future	High Temp Stable up to 230°C. Long pot life. High TG
Type	Two Parts
Hardener	TH-10
Mix Ratio by Wt (A/H)	100/25
Color	Black
Shelf Life	12 months@ 25°C
Mixed Viscosity @25°C cp	3000
Gel Time (Pot Life) (100 grams)	>8 hrs @ 25°C
Cure Schedule	2 hrs @ 150°C or 4 hrs @ 100°C
Cured Properties	
Hardness (Shore D)	92
Glass Transition Temperature	145°C
Flexural Strength	12,300psi
Service Temperature Range	-55°C to 230°C
THERMAL	
Thermal Conductivity (W/m-K)	1.4
ELECTRICAL	
Dielectric Strength (Volts/Mil)	473
Volume Resistivity (Ohm-cm)	10 ¹⁶

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