

TIM-PC 8850FT

Thermally Conductive Potting Compound

DESCRIPTIONS

TIM-PC 8850FT is a pourable filled epoxy resin system offering excellent heat transfer, high voltage insulation, low exotherm and minimum shrinkage. This system shows uniform filler distribution in cured resin. It rapidly transfers heat, eliminates hot spot, and increases the operating efficiency of most encapsulated devices. Its low shrinkage minimizes risk of damage to fragile components.

Applications: It is useful for potting and encapsulating densely packaged power supplies and heat generating components, integrated circuits, power and operational amplifiers, transformers and many types of semiconductors.

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.

| Typical Properties | Value |
|--|--|
| DOT/IATA Shipment | HAZMAT |
| Hardener | TH-9 |
| Mix Ratio (By weight) | 100/3.5 |
| Special Futures | Available with selective hardeners for desire viscosity, TG, pot life & cure temp. |
| Viscosity (Mixed) cps | 50,000-60,000 |
| Pot Life @ 25°C. (100 grams) Minutes | 40 |
| Cure Schedule | 2 hr/25°C+2hr/70°C |
| Alternate Cure | 24 hr/25°C |
| Shelf Life, 25C | 12 months |
| Cured Properties | |
| Color | Black |
| Specific Gravity | 2.35 |
| Hardness, Shore D | 90 |
| Glass Transition Temperature.°C | 86 |
| Lap Shear Strength to Aluminum. PSI | 2400 |
| Flexural Strength, PSI | 14,700 |
| Coefficient of Thermal Expansion, 10-6/°C (Below Tg) | 26 |
| Water absorptions (24hrs immersion/25°C) | 0.03 |
| Dielectric Strength (Volts/mil)) | 430 |
| Dielectric constant , 1kHz | 5.8 |
| Volume Resistivity (Ohm-cm) | 2.0x10 ¹⁵ |

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