# **Epoxy Resin** Cost Effective, Thermally Conductive multicomp



## **Description**

RoHS **Compliant** 

This is a two part, thermally conductive epoxy designed for potting and encapsulation. This meets UL94 V-0 approval and provides thermal dissipation for units with limited spacing.

### **Typical Properties**

#### **Liquid Properties**

Base Material : Epoxy Density Part A - Resin : 2.13g/ml : 0.93q/ml Density Part B - Hardener

Part A Viscosity : 80000mPa s @ 23°C Part B Viscosity : 25mPa s @ 23°C Mixed System Viscosity : 5000mPa s @ 23°C

Mix Ratio (Weight) : 12.78:1 Mix Ratio (Volume) : 5.58:1 : 120 mins Usable Life (20°C) Gel Time (23°C) : 7 hours Cure Time (23°C) : 24 hours Cure Time (60 °C) : 4 hours Colour Part A - Resin : Black Colour Part B - Hardener : Black Shrinkage : < 1%

Exotherm (Measured on 100ml sample;

cylinder of diameter 49.4mm @ 23°C) : < 35°C

#### **Cured System**

Thermal Conductivity : 1W/m.K **Cured Density** : 1.95g/ml : -40°C to +130°C Temperature Range Dielectric Strength : 10kV/mm Volume Resistivity : 10<sup>15</sup> Ω-cm **Shore Hardness** : D90 Colour (Mixed System) : Black Flame Retardancy : Yes Permittivity @ 50 Hz : 6 Comparative Tracking Index : >850 Volts

Water Absorption (9.7mm thick disk, 51mm diameter)

: <0.5%/<1% 10 days @ 20°C/1 hour @ 100°C

### **General Properties**

Packaging : 250g Resin Pack Shelf Life : 24 months

Storage : Dry Conditions: Above 15°C, Below 35°C

: Meets UL94 V-0 **UL** Approval





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## Mixing

When in Resin pack form, the resin and hardener are mixed by removing the clip and moving the contents around inside the pack until thoroughly mixed. To remove the clip, remove both end caps, grip each end of the pack and pull apart gently. By using the removed clip, take special care to push unmixed material from the corners of the pack. Mixing normally takes from two to four minutes depending on the skill of the operator and the size of the pack. Both the resin and hardener are evacuated prior to packing so the system is ready for use immediately after mixing. The corner may be cut from the pack so that it may be used as a simple dispenser.

## **Part Number Table**

Description	Part Number
Epoxy Resin, Thermally Conductive, Black, 250g, Pack	MC002229

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