

Description

This is a two-part, general purpose epoxy resin formulated for potting and encapsulation. The cured resin system meets the UL94 V-0 flammability rating. The flame retardant technology leads to low toxicity fumes and low smoke emission.

Typical Properties

Liquid Properties

Base Material	: Epoxy
Density Part A - Resin	: 1.83g/ml
Density Part B - Hardener	: 0.92g/ml
Part A Viscosity	: 150000mPa s @ 23°C
Part B Viscosity	: 200mPa s @ 23°C
Mixed System Viscosity	: 9000mPa s @ 23°C
Mix Ratio (Weight)	: 10.97:1
Mix Ratio (Volume)	: 5.53:1
Usable Life (20°C)	: 60 mins
Gel Time (23°C)	: 150 mins
Cure Time (23°C)	: 24 hours
Cure Time (60°C)	: 2 hours
Colour Part A - Resin	: Black
Colour Part B - Hardener	: Amber
Shrinkage	: < 1%
Exotherm (Measured on 100ml sample; Cylinder of diameter 49.4mm @ 23°C)	: < 35°C

Cured System

Thermal Conductivity	: 0.85W/m.K
Cured Density	: 1.69g/ml
Temperature Range	: -40°C to +120°C
Dielectric Strength	: 16.6kV/mm
Volume Resistivity	: 10 ¹⁴ Ω-cm
Shore Hardness	: D85
Colour (Mixed System)	: Black
Flame Retardancy	: Yes
Permittivity @ 50 Hz	: 4.8
Comparative Tracking Index	: >850 Volts
Water Absorption (9.7mm thick disk, 51mm diameter) 10 days @ 20°C/1 hour @ 100°C	: <0.5%/<1%

General Properties

Packaging	: 50g Resin Pack
Shelf Life	: 18 months
Storage	: Dry Conditions: Above 15°C, Below 35°C
UL Approval	: Meets UL94 V-0

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, General Purpose, Black, 50g, Pack	MC002569

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