

Description

**RoHS
Compliant**

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.

RoHS-2 Compliant (2015/863/EU):

Yes

UL Approval:

Meets UL94 V-0

Liquid Properties:

Base Material	Epoxy
Density Part A - Resin (g/ml)	1.83
Density Part B - Hardener (g/ml)	1.02
Part A Viscosity (mPa s @ 23°C)	150000
Part B Viscosity (mPa s @ 23°C)	320
Mixed System Viscosity (mPa s @ 23°C)	9000
Mix Ratio (Weight)	9.92:1
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
Exotherm (Measured on 100ml sample; cylinder of diameter 49.4mm @ 23°C)	< 35°C
Shrinkage	< 1%
Cured System:	
Thermal Conductivity (W/m.K)	0.85
Cured Density (g/ml)	1.69
Temperature Range (°C)	-40 to +120
Dielectric Strength (kV/mm)	16.6
Volume Resistivity (ohm-cm)	10 ¹⁴
Shore Hardness	D85
Colour (Mixed System)	Black
Flame Retardancy	Yes
Permittivity @ 50 Hz	4.80
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 : 1000g Resin Pack
 Shelf Life : 18 months
 Storage : Dry Conditions: Above 15°C, Below 35°C

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, 1000g, Pack	MC002571

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