

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	: 1000g 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, 1kg, Pack	MC002571

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell Limited 2016.