

FEATURES

- High hardness material
- Excellent mechanical protection against vibration and physical shock
- Good chemical resistance and water resistance
- Excellent electrical insulation properties
- Flame retardant to UL94 V-0 with 'clean' flame retardant technology

RS PRO Black Epoxy Potting Compound

RS Stock No.: 199-1452



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From RS PRO a high quality good all round easy to apply two-part flame retardant black epoxy resin potting compound designed for general purpose electronics use. This epoxy potting compound provides a hard coating around your electrical components and offers excellent all-round protection including resistance to chemicals and water. Using a 'clean' type of flame retardant technology this epoxy compound, when heated, produces low toxicity fumes and low smoke emission. The components that go to make up this black epoxy resin potting compound are supplied in convenient two-component packs, one containing the epoxy resin and the other containing the hardener. The contents are mixed together without opening the bag, simply remove the central clip and mix!

General Specifications

Product Material	Epoxy
Package Type	Pack
Cure Time	24h
Hardness	85 Shore D
Colour	Black
Odour	Characteristic
Chemical Composition	Epoxy Resin, Formaldehyde, Neodecanoic Acid Glycidyl Ester, Polymer with 1, 3 Dimethylbenzene
Physical Form	Viscous Liquid
Storage Conditions	Dry Conditions: Above 15°C, Below 30°C
Usable Life (20°C)	60 mins
Gel Time (23°C)	150 mins
Coefficient of Expansion (ppm/°C)	40
Volume Resistivity (ohm-cm)	10 ¹⁴
Special Properties	Flame Retardant
Loss Tangent @ 50 Hz	0.04
Permittivity @ 50 Hz	4.00
Comparative tracking index	>850 Volts
Applications	LED applications, Outdoor applications

Electrical Specifications

Dielectric Strength	10kV/mm
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Mechanical Specifications

Package Size	1000g
Thermal Conductivity	0.45W/mK
Viscosity Measurement	000 mPa/s at +25°C, 150
Tensile Strength (MPa)	60

Operation Environment Specifications

Operating Temperature Range	-40°C → +120°C
Maximum Operating Temperature	+120°C
Minimum Operating Temperature	-40°C

Approvals

Compliance/Certifications	RoHS / UL94
Flame Retardancy	Meets UL94 V-0

Mixing Procedure:

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.



