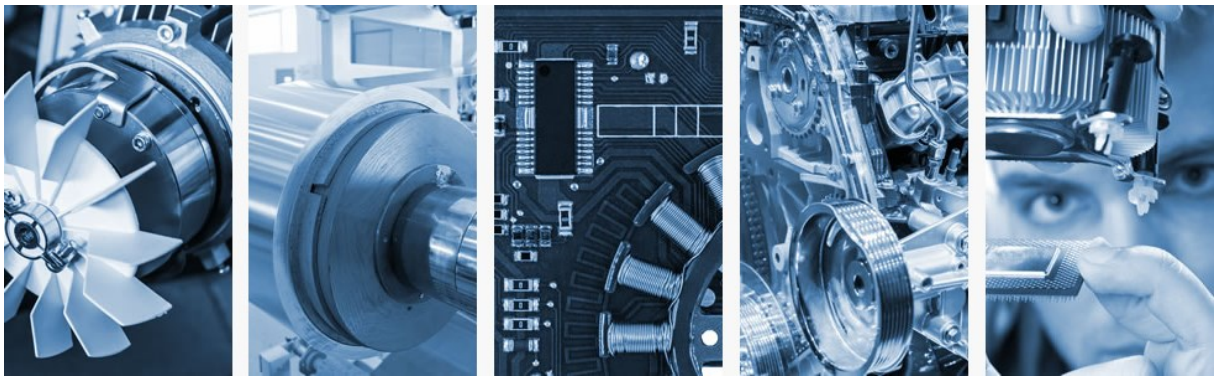
Precision components
made of flexible and rigid materials



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ABOUT OUR COMPANY

Dr. Dietrich Müller GmbH is a global solution provider for electrical insulation materials, thermally conductive products, seals and technical films.

We advise on the selection of the right material and manufacture precision parts from flexible and rigid materials. We operate 6 sites and provide services to companies around the world.

We are ISO 9001 and ISO 14001 certified and UL listed as a repackager (E341377).

The following datasheet is not subject to the Modification Service.

FEATURES

- High thermal conductivity of 1.26W/m.K
- Good environmental protection
- Good chemical resistance and water resistance
- No abrasive fillers reducing wear on dispensing machinery
- Flame retardant to UL94 V-0 with 'clean' flame retardant technology

RS PRO White Epoxy Potting Compound

RS Stock No.: 552-668

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 two-part white flame retardant epoxy resin potting compound. This epoxy potting compound provides a hard coating around your electrical components and offers excellent protection including resistance to chemicals and water. One of the main features of this epoxy resin is its high thermal conductivity and ability to dissipate or transfer heat making it ideal for use in LED applications. This compound uses a 'clean' type of flame retardant technology, this means that, when heated, it produces relatively low toxicity fumes and low smoke emission. The components that go to make up this epoxy resin system 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	White
Odour	Characteristic
Chemical Composition	[(2Ethylhexyl)Oxy]Methyloxirane, Bis[4-(2, Epoxy Resin, Zinc Oxide, 3-Epoxypropoxy)Phenyl]Propane
Physical Form	Viscous Liquid
Storage Conditions	Dry Conditions: Above 15ºC, Below 30ºC
Usable Life (20°C)	90 mins
Gel Time (23°C)	5 hours
Coefficient of Expansion (ppm/°C)	30
Volume Resistivity (ohm-cm)	10^15
Special Properties	Chemical Resistance, Water Resistance
Loss Tangent @ 50 Hz	0.05
Permittivity @ 50 Hz	6.00
Applications	LED applications, Outdoor applications

Electrical Specifications

Dielectric Strength	10kV/mm

Mechanical Specifications

Package Size	250g
Thermal Conductivity	1.26W/mK
Viscosity Measurement	16700 mPa/s at +23°C
Tensile Strength (MPa)	82

Operation Environment Specifications

Operating Temperature Range	-40°C to 125°C
Maximum Operating Temperature	130°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.