

Potting Compound for Electronic Components

EPOXONIC® 73 is a two-component potting compound based on epoxy resin. It is modified with silicone elastomer particles and contains mineral fillers. **EPOXONIC® 73** was developed for the potting of sensors used in under-the-hood automotive applications.

Main Characteristics

- high mechanical strength
- high glass transition temperature

Properties

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|--|-------------------------------|---------------|
| • Colour | black | |
| • Coefficient of thermal expansion | | |
| α_1 (60 - 100°C) | 40 [ppm / K] | (Mettler TMA) |
| α_2 (170 - 220°C) | 140 [ppm / K] | |
| • Glass transition temperature (T_g) | 160 ± 5°C | (Mettler DSC) |
| • Density | approx. 1.5 g/cm ³ | DIN 53479 |
| • Shore hardness | D 92 | DIN 53505 |
| • Thermal conductivity | 0.4 W/mK | |

Processing

- Mix ratio (Part A : Part B) 100 : 34 parts by weight
- Viscosity
 - Part A at 40°C 40 ± 10 Pas
 - Part B at 25°C 400 ± 100 mPas
 - Mixed at 40°C 2000 ± 500 mPas
- Processing temperature < 60°C
- Substrate temperature < 80°C (at or above the temperature of the epoxy)
- Method of application dispenser
- Pot life at 60°C (time for viscosity to double) approx. 2.5 hours
- Recommended cure schedule 3 hours at 130°C
or 1 hour at 150°C

Packaging

EPOXONIC® 73 is delivered in metal cans. Other packaging forms are available upon request.

Quality Assurance

If required **EPOXONIC® 73** will be supplied with a Certificate of Analysis.

Storage

The shelf life of **EPOXONIC® 73** Part A and Part B is at least 12 months when stored in original sealed containers at < 25°C.

Health and Safety

As with all epoxy materials, this product may cause skin irritation. Recommended industrial hygiene procedures should always be followed when handling this product. Avoid skin contact. If contact does occur wash area immediately with soap and water. Please refer to Material Safety Data Sheet for details.

Disclaimer

All information contained herein is based on the present state of knowledge and believed to be reliable. Any suggestions or recommendations are made without liability on our part since we shall have no control over the use of our product. Buyers and users should make their own assessment of this product under their own conditions and for their own requirements.