EPOXONIC
we love epoxies

# EPOXONIC® 373

**Flexible, flame-resistant potting compound for Automotive Engineering, Microelectronics and Electrical Engineering**

EPOXONIC® 373 is a solvent-free, mineral filled 2-part potting compound based on epoxy resin.

## Main characteristics:

- Heat resistance to 150 °C
- Thermal shock resistance
- Flexibility
- High thermal conductivity
- Long pot life
- Flame-resistance

## Application:

EPOXONIC® 373 is especially suited for low stress potting of pressure sensitive electronic devices (e.g. inductive components, sensors).

## Properties:

Specific values measured by standard test specimen at 23 °C, cured 4 h / 120 °C.

| | | |
|---|---|---|
| Operating temperature | -40 °C to +150 °C | |
| Colour | black | |
| Shore hardness | 90 Shore A | DIN EN ISO 868 |
| Density | 1.6 g/cm$^3$ | DIN EN ISO 1183-1 |
| Coefficient of linear thermal expansion CTE | 125 – 135 ppm/K (50°C – 100°C) | ISO 11359-2 |
| Glass transition temperature | -45 to -35 °C | DIN EN ISO 11357-2 |
| Water absorption | 0.2 % at 100 °C / 30 min<br>1.7 % at 85 °C / 100 % rH (Saturation value) | DIN EN ISO 62 |
| Thermal conductivity | 1.0 W/mK | DIN EN ISO 8894-1 |
| Tensile strength | 8 MPa | DIN EN ISO 527 |
| Elongation at break | 35 % | DIN EN ISO 527 |
| E-modulus | 30 MPa | DIN EN ISO 527 |
| Flame-resistance | V0 (not listed) | UL 94 |
| Dielectric strength | > 16 kV/mm | |

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1) Depending on the application, other temperature limits may be reasonable

## Processing:

| | | |
|---|---|---|
| Mix ratio | | Part A : Part B = 100 : 250 parts by weight |
| Viscosity<br>cone/plate viscometer | | |
| | 25 °C | 25,000 - 30,000 mPas (Part A) |
| | 25 °C | 60,000 - 80,000 mPas (Part B) |
| | 25 °C | 45,000 – 55,000 mPas (Mixture A + B) |
| Pot life | 25 °C | > 20 h (time to double viscosity) |
| Method of application | | e.g. dispenser |
| Cure schedule | | e.g. 4 h / 120 °C<br>Optimum cure schedules have to be determined by the specific application. |

## Storage:

The shelf life of EPOXONIC® 373 Part A and part B is 6 months at temperatures < 25 °C when stored in tightly closed, original containers. Part A and part B have to be stirred very well before use. Partly emptied containers should be tightly closed immediately after use.

## Health and Safety:

Recommended industrial hygiene procedures should always be followed when handling this product. Please refer to the corresponding Material Safety Data Sheet for details.

## Packaging:

EPOXONIC® 373 Part A and Part B is delivered in metal cans.
Other packaging options are available upon request.

## Quality Assurance:

If required EPOXONIC® 373 will be supplied with a Certificate of Analysis.

## Disclaimer:

All information 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.