EPOXONIC
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EPOXONIC® 375

Flexible potting compound for Automotive Engineering, Microelectronics and Electrical Engineering

EPOXONIC® 375 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
- Long pot life

Application:

EPOXONIC® 375 is especially suited for low stress potting of pressure sensitive electrical devices with high requirements for thermal shock resistance.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 2 h / 120 °C.

Operating temperature[1)]	-40 °C to +150 °C	
Colour	black	
Shore hardness	87 Shore A	DIN EN ISO 868
Density	approx. 1.7 g/cm^3	DIN 66137-3
Glass transition temperature	-40 °C to -30 °C	DIN EN ISO 11357-2
Coefficient of linear thermal expansion CTE	130 – 140 x 10^{-6}/K (50 – 100 °C)	ISO 11359-2
Tensile strength	13 MPa	DIN EN ISO 527
Elongation at break	55 %	DIN EN ISO 527
E-modulus	40 MPa	DIN EN ISO 527

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

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Processing:

Mix ratio		Part A : Part B = 100 : 120 parts by weight
Viscosity cone/plate viscometer		
	25 °C	50 – 60 Pas (Part A)
	25 °C	75 – 85 Pas (Part B)
	25 °C	60 – 70 Pas (Mixture A + B)
	35 °C	25 – 30 Pas (Mixture A + B)
	60 °C	1500 – 2000 mPas (Mixture A + B)
Pot life	25 °C	> 20 h (time to double viscosity)
Method of application		e.g. dispenser
Cure schedule		e.g. 2 h / 120 °C Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 375 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® 375 Part A and Part B are delivered in metal cans.
Other packaging options are available upon request.

Quality Assurance:

If required EPOXONIC® 375 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.