

EPOXONIC® 374



**Impact resistant potting compound for
Microelectronics and
and Electrical Engineering**

EPOXONIC® 374 is a solvent-free, mineral filled 2-part potting compound based on epoxy resin.

Main characteristics:

Low thermal expansion
Moderate curing temperature
Excellent impact strength
Chemical resistance

Application:

EPOXONIC® 374 is especially suited for potting of temperature sensitive electronic devices (e.g. Automotive Electronics) as well as high-voltage devices (e.g. high-voltage plugs).

Properties:

Specific values measured by standard test specimen at 23 °C, cured 2 h / 70 °C.

Operating temperature ¹⁾	-40 °C to +150 °C	
Colour	light grey	
Shore hardness	90 Shore D	DIN EN ISO 868
Density	1.7 g/cm ³	DIN EN ISO 1183-1
Glass transition temperature	60 - 65 °C	ISO 11357-2
Coefficient of linear thermal expansion CTE	20 – 30 x 10 ⁻⁶ /K (T < 40 °C)	ISO 11359-2
Water absorption	0,1 % at 100 °C / 30 min	DIN EN ISO 62
Tensile strength	70 MPa	DIN EN ISO 527
Elongation at break	1.0 %	DIN EN ISO 527
E-modulus	10,000 MPa	DIN EN ISO 527

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

Processing:

Mix ratio	Part A : Part B = 100 : 8.5 parts by weight	
Mixing temperature	20 – 30 °C	
Viscosity cone/plate viscometer	25 °C	60,000 – 70,000 mPas (Part A)
	60 °C	5,000 – 6,000 mPas (Part A)
	25 °C	10 – 30 mPas (Part B)
	25 °C	3,000 – 4,000 mPas (Mixture A + B)
Pot life	25 °C	approx. 30 - 45 min (time to double viscosity)
Method of application	e.g. dispenser	
Cure schedule	e.g. 2 h / 70 °C Optimum cure schedules have to be determined by the specific application.	

Storage:

The shelf life of EPOXONIC® 374 Part A and Part B is 6 months at temperatures < 25 °C when stored in tightly closed original containers. Part A has to be stirred very well before use.
Partly emptied containers should be tightly closed immediately after use.

Packaging:

Packaging options are available upon request.

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.

Quality Assurance:

If required EPOXONIC® 374 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.