EPOXONIC®
innovative epoxies

EPOXONIC® 275

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

EPOXONIC® 275 is a solvent-free, mineral filled 2-part potting compound based on epoxy resin.

Main characteristics:

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

Application:

EPOXONIC® 275 is especially suited for low stress potting of pressure and vibration sensitive electronic devices with special demands on flame-resistance.

Properties:

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

Operating temperature	-40 °C to +150 °C	
Colour	black	
Shore hardness	70 Shore A	DIN EN ISO 868
Density	1.6 g/cm^3	DIN EN ISO 1183-1
Coefficient of linear thermal expansion CTE (TMA)	125 - 135 x 10^{-6}/K (50 – 100 °C)	ISO 11359-2
Glass transition temperature (DSC)	-45 °C to -35 °C	DIN 53765
Water absorption	2,1 % at 85 °C / 100 % rF (Saturation value) 0,6 % at 100 °C / 30 min	DIN EN ISO 62
Thermal conductivity	approx. 1.0 W/mK	DIN EN ISO 8894-1

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Additional Properties:

Tensile strength	2.0 MPa	DIN EN ISO 527
Elongation at break	35 %	DIN EN ISO 527
E-modulus	10 MPa	DIN EN ISO 527
Flame-resistance	V0 (not listed)	UL 94
Dielectric Strength	> 16 kV/mm	

Processing:

Mix ratio	Part A : Part B = 100 : 300 parts by weight
Viscosity cone/plate viscometer	
25 °C	10,000 – 15,000 mPas (Part A)
25 °C	50,000 – 60,000 mPas (Part B)
25 °C	45,000 – 55,000 mPas (Mixture A + B)
Pot life	> 20 h
Method of application	e.g. dispenser
Cure schedule	e.g. 8 h / 100 °C or 2h / 120 °C Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 275 Part A and part B is 1 year 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® 275 Part A and Part B are delivered in metal cans. Other packaging options are available upon request.

Quality Assurance:

If required EPOXONIC® 275 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.

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