

EPOXONIC® 341

Low viscosity, heat conductive
potting compound for
Electrical Engineering

EPOXONIC® 341 is a solvent-free, mineral filled 2-part potting compound based on epoxy resin.

Main characteristics:

- Long pot life
- Thermal shock resistance
- Excellent flow behaviour
- Ambient curing temperature

Application:

EPOXONIC® 341 is especially suited for potting of large electrical devices with high requirements for thermal shock resistance.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 24 h / 23 °C and 16 h / 80 °C.

Operating temperature	-40 °C to +150 °C	
Colour	beige	
Shore hardness	91 Shore D	DIN EN ISO 868
Density	2.2 g/cm ³	DIN EN ISO 1183-1
Coefficient of linear thermal expansion CTE (TMA)	40 – 50 x 10 ⁻⁶ /K (< 60 °C)	ISO 11359-2
Glass transition temperature (DSC)	65 – 75 °C	DIN EN ISO 11357-2
Thermal conductivity	1.3 W/mK	DIN EN ISO 8894-1
Tensile strength	62 MPa	DIN EN ISO 527
E-modulus	12,000 MPa	DIN EN ISO 527
Elongation at break	0.6 %	DIN EN ISO 527
Flexural strength	115 MPa	DIN EN ISO 178
Outer fibre strain at break	1.5 %	DIN EN ISO 178

Processing:

Mix ratio	Part A : Part B = 100 : 9 parts by weight
Mixing temperature	20 – 40 °C
Viscosity cone/plate viscometer	
25 °C	40,000 – 60,000 mPas (Part A)
25 °C	20 – 50 mPas (Part B)
25 °C	1,500 – 2,500 mPas (Mixture A + B)
Pot life	25 °C > 5 h (time to double viscosity, 100g batch)
Method of application	e.g. dispenser
Cure schedule	e.g. 24 h / 23 °C + 16 h / 80 °C Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 341 Part A and part B is 12 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:

EPOXONIC® 341 Part A is delivered in hobbocks. Part B is delivered in metal cans. Other packaging options are available upon request.

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.

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® 341 will be supplied with a Certificate of Analysis.