EPOXONIC®
innovative epoxies

EPOXONIC® 88

Chemical resistant adhesive for Automotive Engineering and Microelectronics

EPOXONIC® 88 is a solvent-free, mineral filled 1-part adhesive based on epoxy resin.

Main characteristics:

- Heat resistance to 150 °C
- Thermal shock resistance
- Chemical resistance
- High adhesion to many substrates
- Long pot life
- Good flow behaviour
- Toughness

Application:

EPOXONIC® 88 is especially suited for Automotive applications with special demands on heat resistance and temperature shock resistance (e.g. sensors).
Furthermore EPOXONIC® 88 is very well suited for processing at room temperature.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 2 h / 150 °C.

Operating temperature	-40 °C to +150 °C; depending on the application, other limits may be reasonable	
Colour	black	
Shore hardness	90 Shore D	DIN EN ISO 868
Density	1.6 g/cm^3	DIN EN ISO 1183-1
Coefficient of linear thermal expansion CTE (TMA)	55 – 65 x 10^{-6}/K (50 – 100 °C)	ISO 11359-2
Glass transition temperature (DSC)	120 – 130 °C	DIN 53765
Thermal conductivity	0.6 W/mK	DIN EN ISO 8894-1

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Processing:

Processing temperature		20 – 80 °C
Substrat temperature		20 – 80 °C
Viscosity cone/plate viscometer		
	25 °C	25,000 – 35,000 mPas
	60 °C	650 – 750 mPas
	80 °C	150 – 200 mPas
Pot life	25 °C	approx. 48 h (time to double viscosity)
Method of application		e.g. dispenser
Cure schedule		e.g. 2 h / 150 °C Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 88 is approx. 1 week at temperatures of 2 – 8 °C and 12 months at temperatures < -20 °C when stored in tightly closed, original cartridges.

Do not touch the cartridges with bare hands and thaw them in vertical position (tip down). It is recommended not to refreeze used material.

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® 88 is delivered as a "frozen product" in 3 ml cartridges containing 4.5 g material.

Other packaging options are available upon request.

Quality Assurance:

If required EPOXONIC® 88 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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