

EPOXONIC® 292

**Impact resistant adhesive for
Microelectronics,
Automotive and Electrical Engineering**

EPOXONIC® 292 is a solvent-free, mineral filled 1-part adhesive based on epoxy resin.

Main characteristics:

Chemical resistance
Good shear strength
Reduced curing temperature
Impact resistance
Storage at 2 – 8 °C

Application:

EPOXONIC® 292 is especially suited for bonding of electric motor magnets and manufacturing of steel/elastomer composites. For temperature sensitive applications curing at 95 °C is possible as well.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 1 h / 120 °C.

Operating temperature ¹⁾	-40 °C to +150 °C	
Colour	grey	
Density	1.45 – 1.55 g/cm ³	DIN EN ISO 1183-1
Glass transition temperature	120 – 130 °C	DIN EN ISO 11357-2
Coefficient of linear thermal expansion CTE (TMA)	45 – 55 x 10 ⁻⁶ /K (50 – 100 °C) 155 – 165 x 10 ⁻⁶ /K (140 – 200 °C)	ISO 11359-2
Shear Strength Aluminium	70 MPa	
FR4	50 MPa	
Quarz glass	50 MPa	
PC	10 MPa	
PET	25 MPa	
PBT GF 20	20 MPa	
PA 66 GF 30	30 MPa	
Peel strength (aluminium)	2.5 N/mm	DIN EN 1464

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

Processing:

Viscosity cone/plate viscometer	25 °C	190 – 290 Pas
Yield point	25 °C	220 – 280 Pa
Pot life	25 °C	min. 1 week
Method of application		e.g. dispenser
Cure schedule		e.g. 1 h / 120 °C or 24 h / 95 °C Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 292 is 9 months at 2 – 8 °C when stored in tightly closed, original containers. Partly emptied containers should be tightly closed immediately after use.

Packaging:

EPOXONIC® 292 is delivered in metal pails containing 20 kg material. 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® 292 will be supplied with a Certificate of Analysis.