

## Casting Compound for Automotive Electronics

**EPOXONIC® 43** is a filled, two-component casting compound based on epoxy resin. It is especially designed for casting of automotive electronic devices.

### Main Characteristics

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- high temperature storage stability
- thermal shock resistance
- solvent resistance
- good processing properties

### Properties

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• Colour	black	
• Density	1.67 gms/cm <sup>3</sup>	DIN 53479
• Coefficient of thermal expansion (below Tg)	39 x10 <sup>-6</sup> /K	VDE 0304
• Glass transition temperature (Tg)	approx. 130°C	DSC
• Impact strength	16.7 ± 4.4 J/m <sup>2</sup>	DIN 53453
• Hydrolysable chloride content	< 0.05 %	DIN 53188
• Flexural strength	128 MPa	DIN 53453
• Flexural modulus	8,200 MPa	
• Deflection at break	3.0 mm	
• Shore hardness at RT	D 92	DIN 53505
• Water absorption 23 °C/24 h	0.04 %	DIN 53495

### Electrical Properties

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• E-corrosion	A1	DIN 53489
• Specific volume resistivity	2.0 x 10 <sup>15</sup> Ω cm	DIN 53482
• Surface resistivity	1.5 x 10 <sup>15</sup> Ω cm	DIN 53482

- Dielectric strength  
plate 3 mm, 25 °C > 25 kV/mm DIN 53481

## Processing

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- Mixing ratio (Part A : Part B) 100 : 10.4 parts by weight
- Mixing temperature room temperature to 40°C
- Viscosity at 40°C approx. 850 ± 100 mPas  
5 min after mixing
- Pot life at 40°C app. 30 min  
(time for viscosity to double)
- Recommended cure schedule 1 hour at 120°C + 2 hours at 150°C

## Packaging

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**EPOXONIC® 43** is delivered in metal cans. Other packaging options are available upon request

## Quality Assurance

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If required, **EPOXONIC® 43** will be supplied with a Certificate of Analysis.

## Storage

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Component A and B of **EPOXONIC® 43** can be stored at room temperature for at least six months. Storage of component A in a refrigerator reduces sedimentation of the filler.

## Health and Safety

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As with all epoxy materials, this product may cause skin irritation. Recommended industrial hygiene procedures should always be followed when handling this product. Avoid skin contact. If contact does occur wash area immediately with soap and water. Please refer to Material Safety Data Sheet for details.

## Disclaimer

All information contained 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.