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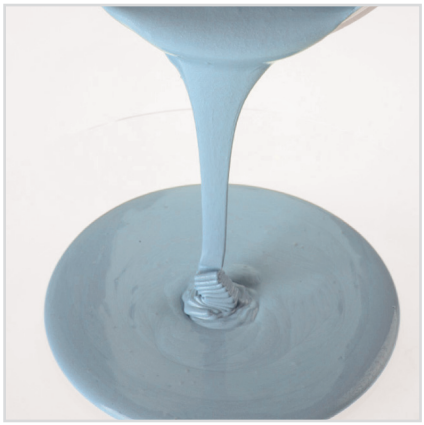
KERAFOL®
Keramische Folien GmbH

GF 300

silicone elastomers



Ceramic-filled, solvent-free two-component silicone elastomers. Because of their various conductivities, their good dielectric properties and their compressibility characteristics, these Gapfillers are ideallysurtable for encapsualting or dispensing. A wide range of different material viscosities make them suitable for “wet-in-wet” production. Customized solutions for the compound and processing technology available.

Properties	Unit	GF 300
Colour		blue
Basic material		silicone
Mixing ratio		1 : 1
Curing	T [°C]	1/2 h ; 120°C
Thermal Properties		
Thermal resistance Rth	K/W	0.41
Thermal impedance Rti	°Cmm²/W	120
	Kin²/W	0.19
Thermal conductivity λ	W/mK	3
Electrical Properties		
Breakdown voltage Ud; ac	kV	7
Dielectric breakdown Ed; ac	kV/mm	14
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.500
Hardness	Shore 00	40 - 55
Physical Properties		
Application temperature	°C	-40 to +200
Density	g/cm³	1.9
Viscosity*	Pas	55 - 85
Possible thickness	mm	0.2 - 3.0

* Shear rate $4s^{-1}$ / 25°C

Applications

- RD-RAM modules
- memory chips
- chipsets
- micro BGA
- heat pipe thermal solutions
- high voltage electronic components

Dispensing technology as a Service: consulting, development & production

As a specialist for dispensing technology, we offer consulting, development and production services for the application of thermal material to different heat sinks or to customized components. We produce in fully air-conditioned clean rooms, using the latest dispensing systems for sample production or prototyping and fully automated, robot-controlled manufacturing lines for serial production.

Benefits

- outstanding adaptability and compressibility
- low mechanical stress
- high thermal conductivity
- long term stability
- compatible with industrial production sequences
- good electrical insulation

You Benefit from

- ✓ a professional service-provider for dispensing production and technology
- ✓ a more economical dispensing material compared to conventional thermal pastes and tapes
- ✓ a time-saving, easy assembly due to the prefabricated, ready-dispensed components

Important notes on page 2 / back

Important notes

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies‘ raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers‘ and manufacturer‘ only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

30-06-2014