

Polytec GF HT 200

Properties

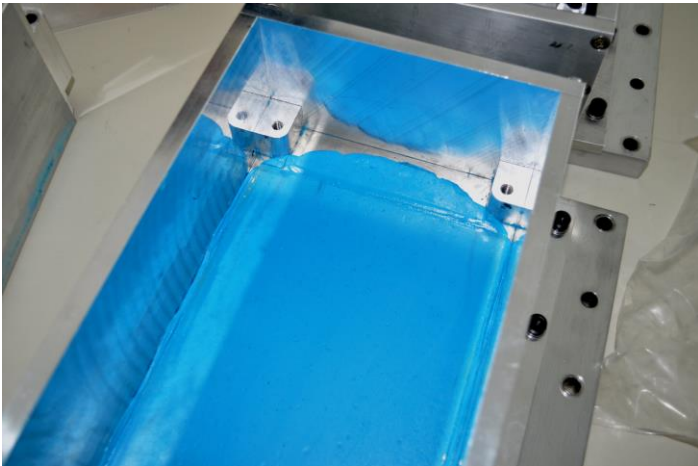
Polytec GF HT 200 is a thermally conductive, silicone-free two component gap filler.

It is easy and convenient to use for heat sinking and thermal management applications in the electronics and automotive industry, for example by filling and leveling gaps between parts that will heat up during operation and the respective cooling plates.

Features

- Dual-component
- Easy to dispense
- Good thermal conductivity 2.0 W/mK
- Self-crosslinking
- Silicone-free
- Non hazardous

Illustrative example



Processing



Illustrative example

- Simple processing using standard equipment, dispensing from customized containers (cartridges, hobbocks).
- Process-safe, high level of automation achievable.
- Processing at elevated temperatures (e.g. 60 °C) decreases the viscosity and enables good distribution.
- The material can be removed in non-crosslinked state by simple wiping, possibly supported by commercially available solvents or cleaners.
- Crosslinking occurs after mixing within 24 hours.
- For more information, please see respective material safety data sheet.

Polytec GF HT 200

Thermally Conductive Gap Filler

Mechanical Properties	Method	Unit	Technical Data
Basis	-	-	silicone-free polymer
Filler	-	-	ceramic
Consistency, appearance	TM 101	-	pasty, blue
Mixing ratio A:B (Volume)		-	10:1
Density Mix	TM 201.3	g/cm ³	2,45
Density A-part	TM 201.3	g/cm ³	2.5
Density B-part	TM 201.3	g/cm ³	1.9
Viscosity Mix plate/plate (constant 10 s ⁻¹ at 23 °C)	TM 202.24	Pa s	160 ± 30
Viscosity A-part plate/plate (constant 10 s ⁻¹ at 23 °C)	TM 202.22	Pa s	140 ± 30
Viscosity B-part plate/plate (constant 10 s ⁻¹ at 23 °C)	TM 202.24	Pa s	55 ± 15
Storage stability in sealed original container	-	months	3
Pot life at RT*		minutes	≥ 30
Curing time at RT*		hours	24
Thermal conductivity (ASTM D5470)	TM 503.5	W/mK	2.0
Specific volume resistance at 1 kV (cured 7d/RT*)	TM 402.1	Ω cm	10 ¹⁰
Dielectric strength paste	TM 402.1	kV/mm	≥ 5
Dielectric strength (cured 7d/RT*)	TM 402.1	kV/mm	≥ 10
Max. operating temperature	TM 302	°C	150
Decomposition temperature	TM 302	°C	> 220

*RT = 20-28°C

Please note:

The information listed above is typical data based on tests and is believed to be accurate. Polytec PT makes no warranties (expressed or implied) as to their accuracy. **The data listed above does not constitute specifications.** The processing (particularly the curing conditions) of the material, the process control, and the variety of different applications at various customers are not under Polytec PT's control. Therefore, Polytec PT will not be liable for concrete results in any specific application or in any connection with the use of this product. The curing conditions have a major effect on the properties of the cured material. Therefore, it is highly recommended to keep the curing schedule – once established - under tight control. With the release of this data sheet all former data sheets will be null and void. Subject to alteration.

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