Gap Filler 1000 (Two-Part)

Thermally Conductive, Liquid Gap Filling Material

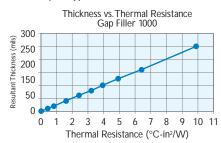
Features and Benefits

- Thermal conductivity: 1.0 W/m-K
- · Ultra-conforming, designed for fragile and low-stress applications
- Ambient and accelerated cure schedules
- 100% solids no cure by-products
- Excellent low and high temperature mechanical and chemical stability



Gap Filler 1000 is a thermally conductive, liquid gap filling material. It is supplied as a two-component, room or elevated temperature curing system. The material is formulated to provide a balance of cured material properties highlighted by "gel-like" modulus and good compression set (memory). The result is a soft, thermally conductive, form-in-place elastomer ideal for coupling "hot" electronic components mounted on PC boards with an adjacent metal case or heat sink. Before cure, Gap Filler 1000 flows under pressure like a grease. After cure, it does not pump from the interface as a result of thermal cycling. Unlike thermal grease, the cured product is dry to the touch. Unlike cured gap filling materials, the liquid approach offers infinite thickness with little or no stress during displacement and eliminates the need for specific pad thickness and die-cut shapes for individual applications. Gap Filler 1000 is intended for use in thermal interface applications when a strong structural bond is not required.

Note: Resultant thickness is defined as the final gap thickness of the application.



TYPICAL PROPERTIES OF GAP FILLER 1000			
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color / Part A	Gray	Gray	Visual
Color / Part B	White	White	Visual
Viscosity as Mixed (cps) (1)	100,000	100,000	ASTM D2196
Density (g/cc)	1.6	1.6	ASTM D792
Mix Ratio	1:1	1:1	_
Shelf Life @ 25°C (months)	6	6	_
PROPERTY AS CURED			
Color	Gray	Gray	Visual
Hardness (Shore 00) (2)	30	30	ASTM D2240
Heat Capacity (J/g-K)	1.0	1.0	ASTM E1269
Continuous Use Temp (°F) / (°C)	-76 to 347	-60 to 175	_
ELECTRICAL AS CURED			
Dielectric Strength (V/mil)	500	500	ASTM D149
Dielectric Constant (1000 Hz)	5.0	5.0	ASTM D150
Volume Resistivity (Ohm-meter)	1011	1011	ASTM D257
Flame Rating	V-O	V-O	U.L. 94
THERMAL AS CURED			
Thermal Conductivity (W/m-K)	1.0	1.0	ASTM D5470
CURE SCHEDULE			
Pot Life @ 25°C (min) (3)	15	15	_
Cure @ 25°C (min) (4)	60 - 120	60 - 120	_
Cure @ 100°C (min) (4)	5	5	_
1) Brookfield RV, Heli-Path, Spindle TF @ 20 rpm, 25°(2) Thirty second delay value Shore 00 hardness scale.	C.		

- 3) Time for viscosity to double.
- 4) Cure schedule (rheometer time to read 90% cure)

Typical Applications Include:

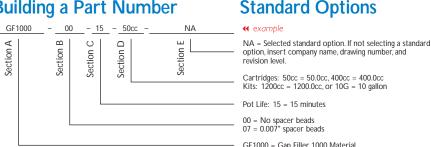
• Automotive electronics

- Telecommunications
- Computer and peripherals
- Thermally conductive vibration dampening
- · Between any heat-generating semiconductor and a heat sink

Configurations Available:

• For smaller quantity packaging, please contact Bergquist Sales

Building a Part Number



Note: To build a part number, visit our website at www.bergquistcompany.com.

Gap Pad®: U.S. Patent 5,679,457 and others.



www.bergquistcompany.com

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