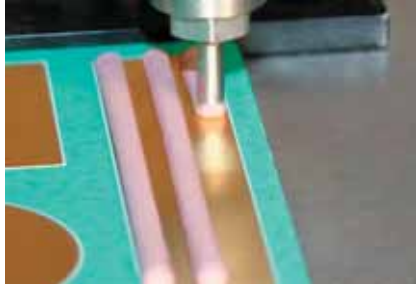


Gap Filler 2000 (Two-Part)

Thermally Conductive, Liquid Gap Filling Material

Features and Benefits

- Thermal conductivity: 2.0 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

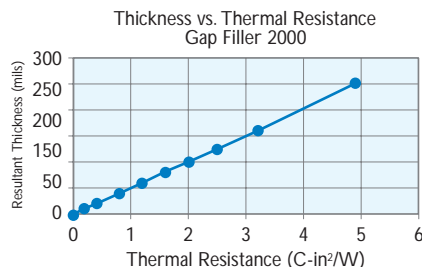


Gap Filler 2000 is a high performance, thermally conductive, liquid gap filling material supplied as a two-component, room or elevated temperature curing system. The material provides a balance of cured material properties and good compression set (memory). The result is a soft, form-in-place elastomer ideal for coupling "hot" electronic components mounted on PC boards with an adjacent metal case or heat sink. Before cure, it flows under pressure like grease. After cure, it won't pump from the interface as a result of thermal cycling and is dry to the touch.

Unlike cured Gap Filling materials, the liquid approach offers infinite thickness with little or no stress during displacement and assembly. It also eliminates the need for specific pad thickness and die-cut shapes for individual applications.

Gap Filler 2000 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 2000 | | | |
|---|------------------|------------------|-----------------|
| PROPERTY | IMPERIAL VALUE | METRIC VALUE | TEST METHOD |
| Color / Part A | Pink | Pink | Visual |
| Color / Part B | White | White | — |
| Viscosity as Mixed (cps) ⁽¹⁾ | 300,000 | 300,000 | ASTM D2196 |
| Density (g/cc) | 2.9 | 2.9 | ASTM D792 |
| Mix Ratio | 1:1 | 1:1 | — |
| Shelf Life @ 25°C (months) | 6 | 6 | — |
| PROPERTY AS CURED | | | |
| Color | Pink | Pink | Visual |
| Hardness (Shore 00) ⁽²⁾ | 70 | 70 | ASTM D2240 |
| Heat Capacity (J/g-K) | 1.0 | 1.0 | ASTM D1269 |
| Continuous Use Temp (°F) / (°C) | -76 to 392 | -60 to 200 | — |
| ELECTRICAL AS CURED | | | |
| Dielectric Strength (V/ml) | 500 | 500 | ASTM D149 |
| Dielectric Constant (1000 Hz) | 7 | 7 | ASTM D150 |
| Volume Resistivity (Ohm-meter) | 10 ¹¹ | 10 ¹¹ | ASTM D257 |
| Flame Rating | V-O | V-O | U.L. 94 |
| THERMAL AS CURED | | | |
| Thermal Conductivity (W/m-K) | 2.0 | 2.0 | ASTM D5470 |
| CURE SCHEDULE | | | |
| Pot Life @ 25°C ⁽³⁾ | 15 min | 60 min | 600 min (10 hr) |
| Cure @ 25°C ⁽⁴⁾ | 1-2 hours | 3-4 hours | 3 days |
| Cure @ 100°C ⁽⁴⁾ | 5 min | 15 min | 1 hour |

1) Brookfield RV, Heli-Path, Spindle TF @ 20 rpm, 25°C.
2) Thirty second delay value Shore 00 hardness scale.
3) Time for viscosity to double.
4) Cure schedule (rheometer - time to read 90% cure)

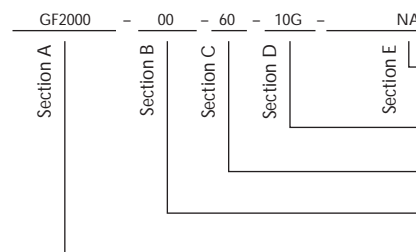
Typical Applications Include:

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

Configurations Available:

- Supplied in cartridge or kit form

Building a Part Number



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

Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

Cartridges: 50cc = 50.0cc, 400cc = 400.0cc
Kits: 1200cc = 1200.0cc, or 10G = 10 gallon

Pot Life: 15 = 15 minutes, 60 = 60 minutes
600 = 600 minutes

00 = No spacer beads
07 = 0.007" spacer beads

GF2000 = Gap Filler 2000 Material

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



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