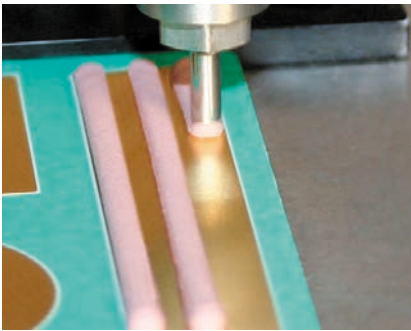


Gap Filler 2000 (Two-Part)

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.

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/mil)	500	500	ASTM D149
Dielectric Constant (1,000 Hz)	7	7	ASTM D150
Volume Resistivity (Ohmmeter)	10 ¹¹	10 ¹¹	ASTM D257
Flame Rating	V-O	V-O	UL 94
THERMAL AS CURED			
Thermal Conductivity (W/m-K)	2.0	2.0	ASTM D5470
CURE SCHEDULE			
	SCHEDULE 1	SCHEDULE 2	SCHEDULE 3
Pot Life @ 25°C ⁽³⁾	15 mins.	60 mins.	600 mins. (10 hr)
Cure @ 25°C ⁽⁴⁾	1-2 hrs.	3-4 hrs.	3 days
Cure @ 100°C ⁽⁴⁾	5 mins.	15 mins.	1 hr

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).

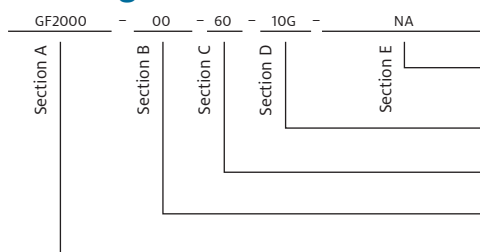
Typical Applications Include:

- 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



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

Note: To build a part number, go to www.bergquistcompany.com/Part_Number_Builder.php.