

## Gap Filler 1000SR (Two-Part)

### Thermally Conductive, Liquid Gap Filler Material

#### Features and Benefits

- Thermal conductivity: 1.0 W/m-K
- Excellent slump resistance (stays in place)
- Ultra-conforming, with excellent wet-out for low stress interface applications
- 100% solids – no cure by-products
- Excellent low and high temperature mechanical and chemical stability



Gap Filler 1000SR is a two-part, thermally conductive, liquid gap filling material that features exceptional slump resistance. The mixed system will cure at room temperature and can be accelerated with the addition of heat.

Unlike cured thermal pad materials, a liquid approach offers infinite thickness variations with little or no stress to sensitive components during assembly. As cured, Gap Filler 1000SR provides a soft, thermally conductive, form-in-place elastomer that is ideal for fragile assemblies or for filling unique and intricate air voids and gaps.

Gap Filler 1000SR exhibits low level natural tack characteristics and is intended for use in applications where a strong structural bond is not required.

#### TYPICAL PROPERTIES OF GAP FILLER 1000SR

| PROPERTY                                    | IMPERIAL VALUE   | METRIC VALUE     | TEST METHOD |
|---------------------------------------------|------------------|------------------|-------------|
| Color / Part A                              | Violet           | Violet           | Visual      |
| Color / Part B                              | White            | White            | Visual      |
| Viscosity, High Shear (Pa-s) <sup>(1)</sup> | 20               | 20               | ASTM D5099  |
| Density (g/cc)                              | 2.0              | 2.0              | ASTM D792   |
| Mix Ratio                                   | 1:1              | 1:1              | —           |
| Shelf Life @ 25°C (months)                  | 6                | 6                | —           |
| <b>PROPERTY AS CURED</b>                    |                  |                  |             |
| Color                                       | Violet           | Violet           | Visual      |
| Hardness (Shore 00) <sup>(2)</sup>          | 75               | 75               | ASTM D2240  |
| Heat Capacity (J/g-K)                       | 1.0              | 1.0              | ASTM D1269  |
| Continuous Use Temp. (°F) / (°C)            | -76 to 347       | -60 to 175       | —           |
| <b>ELECTRICAL AS CURED</b>                  |                  |                  |             |
| Dielectric Strength (V/mil)                 | 500              | 500              | ASTM D149   |
| Dielectric Constant (1,000 Hz)              | 5.1              | 5.1              | ASTM D150   |
| Volume Resistivity (Ohmmeter)               | 10 <sup>11</sup> | 10 <sup>11</sup> | ASTM D257   |
| Flame Rating                                | V-O              | V-O              | UL 94       |
| <b>THERMAL AS CURED</b>                     |                  |                  |             |
| Thermal Conductivity (W/m-K)                | 1.0              | 1.0              | ASTM D5470  |
| <b>CURE SCHEDULE</b>                        |                  |                  |             |
| Pot Life @ 25°C (mins.) <sup>(3)</sup>      | 60               | 60               | —           |
| Cure @ 25°C (hrs.) <sup>(4)</sup>           | 20               | 20               | —           |
| Cure @ 100°C (mins.) <sup>(4)</sup>         | 10               | 10               | —           |

1) Capillary Viscosity, Initial, 4,500 sec-1. Part A and B measured separately.

2) Thirty-second delay value Shore 00 hardness scale.

3) ARES Parallel Plate Rheometer - Working life as liquid, time for modulus to double.

4) ARES Parallel Plate Rheometer - Estimated time to reach 90% cure.

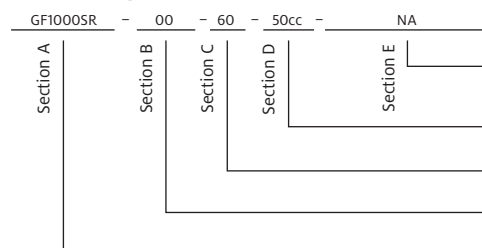
#### Typical Applications:

- Automotive electronics
- Computer and peripherals
- Between any heat-generating semiconductor and a heat sink
- Telecommunications

#### 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: 60 = 60 minutes

00 = No spacer beads  
07 = 0.007" spacer beads

GF1000SR = GAP FILLER 1000SR Material

Note: To build a part number, go to [www.bergquistcompany.com/Part\\_Number\\_Builder.php](http://www.bergquistcompany.com/Part_Number_Builder.php).