# Gap Filler 3500S35 (Two-Part)

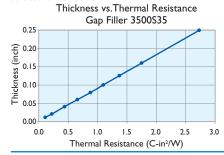
Thermally Conductive Liquid Gap Filling Material

#### **Features and Benefits**

- Thermal Conductivity: 3.6 W/m-K
- Thixotropic nature makes it easy to dispense
- Two-part formulation for easy storage
- Ultra-conforming designed for fragile and low stress applications
- Ambient or accelerated cure schedules



Gap Filler 3500S35 is the technology leader in thermally conductive, liquid gap filling materials, featuring ultra-high thermal performance and superior softness. The material is twocomponent, cured either at room or elevated temperature. Prior to curing, the material maintains good thixotropic characteristics as well as low viscosity. The result is a gel-like liquid material designed to fill air gaps and voids yet flow when acted upon by an external force (e.g. dispensing or assembly process). The material is an excellent solution for interfacing fragile components with high topography and/or stack-up tolerances to a universal heat sink or housing. Once cured, it remains a low modulus elastomer designed to assist in relieving CTE stresses during thermal cycling yet maintain enough modulus to prevent pump-out from the interface. Gap Filler 3500S35 will lightly adhere to surfaces, thus improving surface area contact. Gap Filler 3500S35 is not designed to be a structural adhesive.



#### TYPICAL PROPERTIES OF GAP FILLER 3500S35 PROPERTY IMPERIAL VALUE METRIC VALUE TEST METHOD Color / Part A Visual White White Color / Part B Blue Blue Visual Viscosity as Mixed (cps) (1) 150.000 150.000 ASTM D2196 Density (g/cc) 2.9 2.9 ASTM D792 Mix Ratio 1.1 1.1 Shelf Life @ 25°C (months) 5 5 PROPERTY AS CURED Blue Blue Vicual Hardness (Shore 00) (2) 32 32 ASTM D2240 Continuous Use Temp (°F) / (°C) -76 to 392 -60 to 200 **ELECTRICAL AS CURED** Dielectric Strength (V/mil) 275 275 ASTM D149 Dielectric Constant (1000 Hz) 8.0 8.0 ASTM D150 109 ASTM D257 Volume Resistivity (Ohm-meter) 109 Flame Rating V-O V-O U.L. 94 THERMAL AS CURED Thermal Conductivity (W/m-K) ASTM D5470 3.6 3.6 **CURE SCHEDULE** Pot Life @ 25°C (min) (3) 60 Cure @ 25°C (hrs) (4) 15 15 Cure @ 100°C (min) (4) 30 30

- I) 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)

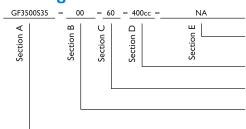
### **Typical Applications Include:**

- Automotive electronics
- PCBA to housing
- Discrete components to housing
- Fiber optic telecommunications equipment

### **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

GF3500S35 = Gap Filler 3500S35 Material

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

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

## BERTQUIST

www.bergquistcompany.com

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