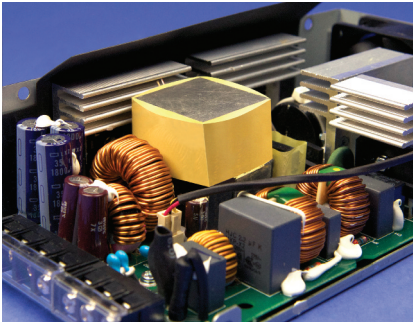


Gap Filler I400SL

Thermally Conductive, Self-Leveling, Liquid Gap Filling Material

Features and Benefits

- Thermal Conductivity: 1.4 W/m-K
- Self-Leveling
- Very Soft
- Vibration Dampening



Gap Filler I400SL is a two-part, thermally conductive, silicone based, liquid gap filling material. This material has an extremely low viscosity to enable self-leveling and filling of voids resulting in excellent thermal transfer.

Unlike cured thermal pad materials, a liquid approach offers infinite thickness variations with little or no stress to the sensitive components during assembly. As cured, Gap Filler I400SL provides a soft, thermally conductive, form-in-place elastomer that is ideal for fragile assemblies and filling unique and intricate gaps.

Gap Filler I400SL exhibits low level natural tack characteristics and is intended for use in applications where a strong structural bond is not required.

Dispensing

Due to its low viscosity nature, Gap Filler I400SL will settle upon storage. Each container must be thoroughly mixed before combining Part A and Part B via static mixer and dispensing into application.

TYPICAL PROPERTIES OF GAP FILLER I400SL

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color / Part A	Yellow	Yellow	Visual
Color / Part B	White	White	Visual
Viscosity, As Mixed (cps) (1)	5000	5000	ASTM D2196
Density (g/cc)	2.5	2.5	ASTM D792
Mix Ratio	1:1	1:1	—
Shelf Life @ 25°C (months) (2)	6	6	—
PROPERTY AS CURED			
Color	Yellow	Yellow	Visual
Hardness (Shore 00) (3)	40	40	ASTM D2240
Heat Capacity (J/g-K)	0.9	0.9	ASTM D1269
Siloxane Content, ΣD ₄ -D ₁₀ (ppm)	40	40	—
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200	—
ELECTRICAL AS CURED			
Dielectric Strength (V/mil)	250	250	ASTM D149
Dielectric Constant (1000 Hz)	6.0	6.0	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)	1.4	1.4	ASTM D5470
CURE SCHEDULE			
Working Time @ 25°C (4)	120 min	120 min	—
Cure @ 25°C (hrs) (4)	24	24	—
Cure @ 100°C (min) (4)	30	30	—

(1) Brookfield Rheometer, Part A and Part B mixed 1:1 ratio.
 (2) See application note for storage and handling recommendations.
 (3) Thirty second delay value, Shore 00 scale.
 (4) Parallel Plate Rheometer, see reactivity application note.

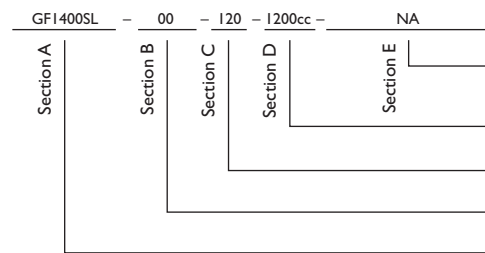
Typical Applications:

- Automotive electronics
- Telecommunications
- Encapsulating semiconductors and magnetic components with heatsink
- Silicone sensitive applications
- Lighting
- Power Supplies

Configurations Available:

- Available for order in 1200cc kits and 7 gallon pail formats

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.

Kits: 1200cc = 1200.0cc, or 7G = 7 gallon

Working Time: 120 = 120 minutes

00 = No spacer beads

GFI400SL = Gap Filler I400SL Material

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



Henkel Bergquist Preferred Converter
 10135 Gottschalk Parkway
 Chagrin Falls, Ohio 44023
 sales@rico-inc.com
 +1 440-543-9209

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