

Gap Filler TGF 1450

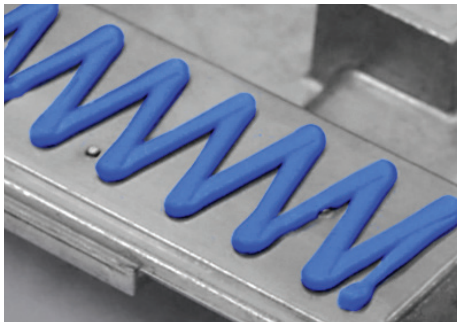
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PRODUCT DESCRIPTION

A two-part, high performance, thermally conductive liquid gap filling material.

FEATURES AND BENEFITS

- Thermal conductivity: 1.5 W/m-K
- Ultra-conforming with excellent wet-out for near zero interface stress
- No cure by-products
- Low density for weight sensitive application
- Excellent low and high temperature mechanical and chemical stability
- Shear thinning viscosity for ease of dispensing



Gap Filler TGF 1450 is a high performance thermally conductive liquid gap filling material which features high shear thinning characteristics for optimized consistency and control during dispensing. Gap Filler TGF 1450 features a low-density design which reduces final assembly weight.

The mixed system will cure at room temperature and can be accelerated with the addition of heat. Gap Filler TGF 1450 offers infinite thickness variations with little or no stress to the sensitive components during or following assembly. As cured, Gap Filler TGF 1450 provides a soft, thermally conductive form-in place elastomer that is ideal for fragile assemblies and filling unique and intricate air voids and gaps.

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

TYPICAL PROPERTIES OF GAP FILLER TGF 1450

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color / Part A	Blue	Blue	Visual
Color / Part B	Light Blue	Light Blue	Visual
Viscosity, High Shear (Pa-s)(1)	30	30	ASTM D5099
Viscosity, Low Shear (Pa-s)(2)	200	200	ASTM D2196
Density (g/cc)	1.85	1.85	ASTM D792
Mix Ratio	1:1	1:1	—
Shelf Life @ 25°C (months)(3)	6	6	—
PROPERTY AS CURED			
Color	Blue	Blue	Visual
Hardness (Shore 00)(4)	40	40	ASTM D2240
Heat Capacity (J/g-K)	1.0	1.0	ASTM D1269
Continuous Use Temp (°F) / (°C)	-76 to 347	-60 to 175	—
ELECTRICAL AS CURED			
Dielectric Strength (V/mil)	275	275	ASTM D149
Dielectric Constant (1000 Hz)	6.4	6.4	ASTM D150
Volume Resistivity (Ohm-meter)	10 ¹⁰	10 ¹⁰	ASTM D257
Flame Rating	V-O	V-O	U.L. 94
THERMAL AS CURED			
Thermal Conductivity (W/m-K)	1.5	1.5	ASTM D5470
CURE SCHEDULE		SCHEDULE 1	SCHEDULE 2
Pot Life @ 25°C (5)	60 min	60 min	ASTM D4473
Cure @ 25°C (5)	5 hours	5 hours	ASTM D4473
Cure @ 100°C (5)	10 min	30 min	ASTM D4473
1) Capillary Viscosity, 3000/sec, Part A and B measured separately. 2) Flow viscosity measured on Parallel Plate rheometer, 1/sec shear rate, Part A and B measured separately 3) See application note for storage and handling recommendations. 4) Thirty second delay value, Shore 00 hardness scale. 5) Parallel Plate Rheometer, see reactivity application note.			

TYPICAL APPLICATIONS INCLUDE

- Automotive electronics (HEV, NEV, batteries)
- Lighting

CONFIGURATIONS AVAILABLE

- With or without glass beads, available for order in kits or pail formats

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Disclaimer

Note:

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