

Gap Filler 3500LV (Two-Part)

May 2015

PRODUCT DESCRIPTION

Thermally Conductive, Low Outgassing, Liquid Gap Filling Material

FEATURES AND BENEFITS

- Thermal Conductivity: 3.5 W/m-K
- Low volatility for outgassing sensitive applications
- Ultra-conforming with excellent wet-out for low stress interfaces on applications
- 100% solids - no cure by-products



Gap Filler 3500LV is a two-part, high thermal conductivity, liquid gap filling material. This material offers the mechanical property benefits of a silicone material with the additional feature of low outgassing.

The mixed material will cure at room temperature or can be accelerated with the addition of heat.

The liquid approach offers infinite thickness variations with little to no stress to sensitive components during assembly. As cured, Gap Filler 3500LV provides a soft, form-in-place elastomer that is ideal for fragile assemblies or for filling intricate air voids.

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

TYPICAL PROPERTIES OF GAP FILLER 3500LV

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color / Part A	Blue	Blue	Visual
Color / Part B	White	White	Visual
Viscosity, High Shear (Pa-s) (1)	45	45	ASTM D5099
Density (g/cc)	3.1	3.1	ASTM D792
Mix Ratio	1:1	1:1	—
Shelf Life @ 25°C (months)	5	5	—
PROPERTY AS CURED			
Color	Light Blue	Light Blue	Visual
Hardness (Shore 00) (2)	40	40	ASTM D2240
Heat Capacity (J/g-K)	0.8	0.8	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)	275	275	ASTM D149
Dielectric Constant (1000 Hz)	8.0	8.0	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)	3.5	3.5	ASTM D5470
CURE SCHEDULE			
Working Time @ 25°C (3)	240 min (4 hrs)	240 min (4 hrs)	—
Cure @ 25°C (hrs) (3)	24	24	—
Cure @ 100°C (min) (3)	30	30	—
1) Capillary Viscosity, 1500/sec, Part A and B measured separately. 2) Thirty second delay value Shore 00 hardness scale. 3) Parallel plate rheometer, see reactivity application note.			

TYPICAL APPLICATIONS INCLUDE

- Lighting
- Automotive in-cabin electronics
- Medical electronics
- Industrial controls
- Optics

CONFIGURATIONS AVAILABLE

- Supplied in cartridge or kit form

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Disclaimer

Note:

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