

TIM-LGF-2007

Thermally Conductive, Two Part Silicone Liquid Gap Filler

DESCRIPTIONS

TIM-LGF-2007 is thermally conductive liquid gap filler materials formulated to provide a balance of cured material properties with “gel-like” modules and good compression set or memory. This Form-in-Place liquid gap filler is ideal for applying any thickness. Unlike cured thermal pad, a liquid approach offers infinite thickness variations with little or no stress to sensitive components during assembly process..

TIM-LGF-2007 flows under pressure like grease, easily cures at room or elevated temperature and form in soft rubber/gel and adheres to most surfaces, forms shapes and sizes of components with very low compression force. It eliminates multiple pad thickness and die-cut shapes for individual applications. It can be applied like grease, easily dispensable from wide range of commercially available equipment.

KEY FUTURES AND BENEFITS

- **Thermal Conductivity (1.5 W/m-K)**
- Ultra-conforming, wet-out. Designed for fragile and low stress applications
- **Very soft/Gel type cure**
- Relieves CTE Stress during thermal cycling

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Flip chip microprocessors, Graphic chips
- PPGA's, BGA, Micro BGA, DSP chips, LED
- Automotive electronics (ECU's)
- Thermally conductive vibration dampening

AVAILABILITY

50cc & 400cc dual Syringes/Cartridges, 2 gallon & 10 gallons Kits

Property	Test Method	Value
Type		Two Parts Silicone, curable
Special Futures		Very soft, gel type cure, excellent deflection value
Color	Visual	Blue (Part A: White, Part B: Blue)
Mixed Viscosity. PaS	Brookfield	80
Mix Ratio		1:1
Specific Gravity	ASTM D792	2.5
Hardness (Shore 00)	ASTM D2240	45
Pot Life @ 25°C		90 min
Cure Time @ 25°C		24-48 hrs
Cure Time @ 100°C		30 min
Flammability (Equivalent)	UL 94	V-0
Operating Temperature Range.		-55°C to 204°C
Shelf Life (Unopened)		12 months
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	1.5
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	12
Volume Resistivity (Ohm-m)	ASTM D257	10 ¹²

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