



PRODUCT DESCRIPTION

Tgel™ 600 is a new TIM classification. It is an all-in-one dispensable that can be used in minimum bond-line, constant pressure applications (grease) and used as a thick gap filler in a constant gap up to 2mm (dispensable gap filler/gel/putty). This would simplify operations by consolidating TIM materials and increases throughput dispensing only one material instead of multiple materials or placing pads

FEATURES & BENEFITS

- Cools most demanding components like a grease while maintaining large are gap stability for secondary components.
- 6.8 W/mK bulk thermal conductivity
- Extremely Low pump out
- Optimized dispensing flowability
- Easy rework

MARKETS

- Semiconductor Packaging
- Graphics Card
- Notebooks
- Servers
- IGBTs
- Power Semi-Conductors
- Memory Modules
- Telecom Systems

AVAILABILITY

- Cans
- Pails
- Cartridges
- Syringes

STORAGE CONDITIONS

- Storage:
 - pail or can: 15C to 35C
 - cartridge or syringe: 15C to 35C, <50%RH
- Shelf Life:
 - In bulk unopened cans & pails: 24 months when stored at above conditions.
 - In Syringes and Cartridges: 6 months when stored at above conditions

TYPICAL PROPERTIES

| PROPERTY | Tgel 600 | TEST METHOD |
|------------------------------------|---|-------------------|
| Construction | Filled Silicone Dispensable | N/A |
| Color | Grey | Visual |
| Density | 2.63 g/cc | Helium Pycnometer |
| Flow Rate | 49cc/min: 75cc cartridge 13cc/min: 30cc syringe. | Laird Test Method |
| Thixotropic Index | 5 | Rheometer |
| Bulk Thermal Conductivity | 6.8 W/m-K | Hot Disk |
| Thermal Resistance | | |
| 10 psi & 50°C | 0.05 °C-cm ² /W | ASTM D5470 |
| 50 psi & 50°C | 0.03 °C-cm ² /W | |
| Constant gap of 0.1mm | 0.16 °C-cm ² /W | |
| Constant gap of 1.0mm | 1.50 °C-cm ² /W | |
| Operating Temperature Range | -40°C to 125°C | Laird Test Method |
| Minimum BLT | ~20µm | Laird Test Method |
| Peak Force | < 48N (12.5 mm/min) | Laird Test Method |
| Residual Force | < 6N | |
| Dielectric Constant | 70 @1KHz/1MHz/1GHz | ASTM D150 |
| Volume Resistivity | 1x10 ¹¹ Ω-cm | ASTM D991 |
| UL Recognition | Pending | UL94 |

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