Laird™
A DuPont Business

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 syinge: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

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Europe: +49.8031.24600

Asia: +86.755.2714.1166

www.laird.com

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** **50 psi & 50°C** **Constant gap of 0.1mm** **Constant gap of 1.0mm**	0.05 °C-cm^2/W 0.03 °C-cm^2/W 0.16 °C-cm^2/W 1.50 °C-cm^2/W	ASTM D5470
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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