



Laird™ Tgrease™ 3000

High Performance Thermal Interface Material

Description

Tgrease™ 3000 is a high performance, high temperature stable thermal grease designed to support the increasing operating temperature demand, especially for SiC and GaN power semi-conductors. The high temperature performance can transcend to overall longer reliability in lower operating temperature environments as well. Tgrease™ 3000 has outstanding thermal performance and very low pump out compared to other thermal greases.

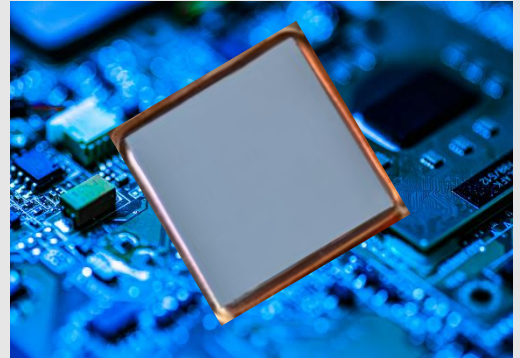
- Advantages Cools highly demanding components
- 3.2 W/mK bulk thermal conductivity
- 200C rated operating range
- Extremely low pump out
- Optimized dispensing flowability
- Easy to re-work

Applications

- Power semiconductors
- IGBTs
- Semiconductor packaging
- Graphics card
- Notebooks
- Servers
- Memory modules
- Telecom systems

Availability

- Cans
- Pails
- Cartridges
- Syringes



Main properties

Typical physical properties	Tgrease 3000	Test method
Construction	Filled Silicone Dispensable	N/A
Color	Grey	Visual
Density	2.46 g/cc	Helium Pycnometer
Flow rate, 75cc cartridge	127cc/min or 312g/min	60 psi with 0.125" I.D. tip
Flow rate, 30cc syringe	67cc/min or 164g/min	90 psi, no tip
Bulk thermal conductivity	3.2 W/m-K	Hot Disk
Thermal resistance 50 psi & 50°C	0.07 °C-cm ² /W	ASTM D5470
Operating temperature range	-40°C to 200°C	Laird Test Method
Minimum BLT	~25µm	Laird Test Method
Viscosity	<500,000cP	Rotational Viscometer - TF spindle at 20rpm (helipath) at 23°C
Thixotropic index	6	Rheometer
Dielectric constant	63 @1MHz	ASTM D150
Volume resistivity	2.9x10 ¹³	ASTM D991
UL recognition	V0	UL94

Note: Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

Safe handling information

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard information. For material safety datasheet, contact your local Laird sales office.

Storage condition

When packaged in pails or cans: 15C to 35C

When packaged in cartridges or syringes: 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 TBD.

Disposal considerations

Dispose in accordance with all local, state and federal regulations. Contact your Laird representative for more information.

Health and environmental information

To support customers in their product safety needs, Qnity has an extensive product stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area. For further information, please see our website, www.qnityelectronics.com, or consult your local Laird representative.

For more information on other Laird™ products, please visit www.laird.com. Additional information on other Qnity products is available at www.qnityelectronics.com.

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