

SilCool* TIG1500

Thermally Conductive Silicone Compound

SilCool TIG1500 is a silicone compound used in a wide variety of thermal interfaces to manage heat in electronic applications.

Key Features and Typical Benefits

- Excellent workability enabling automated dispensing, screen printing and stamping
- Low oil separation and minimal weight loss
- High heat stability under 200°C aging
- Low volatile content
- Extended retention of grease properties via low evaporation

Potential Applications

- Thermal Interface Material between heat spreaders and heat sinks (TIM2)
- Thermal management for power transistor, power IC, LSI systems home appliance products, LED lighting products, and general electronic devices

Typical Physical Properties

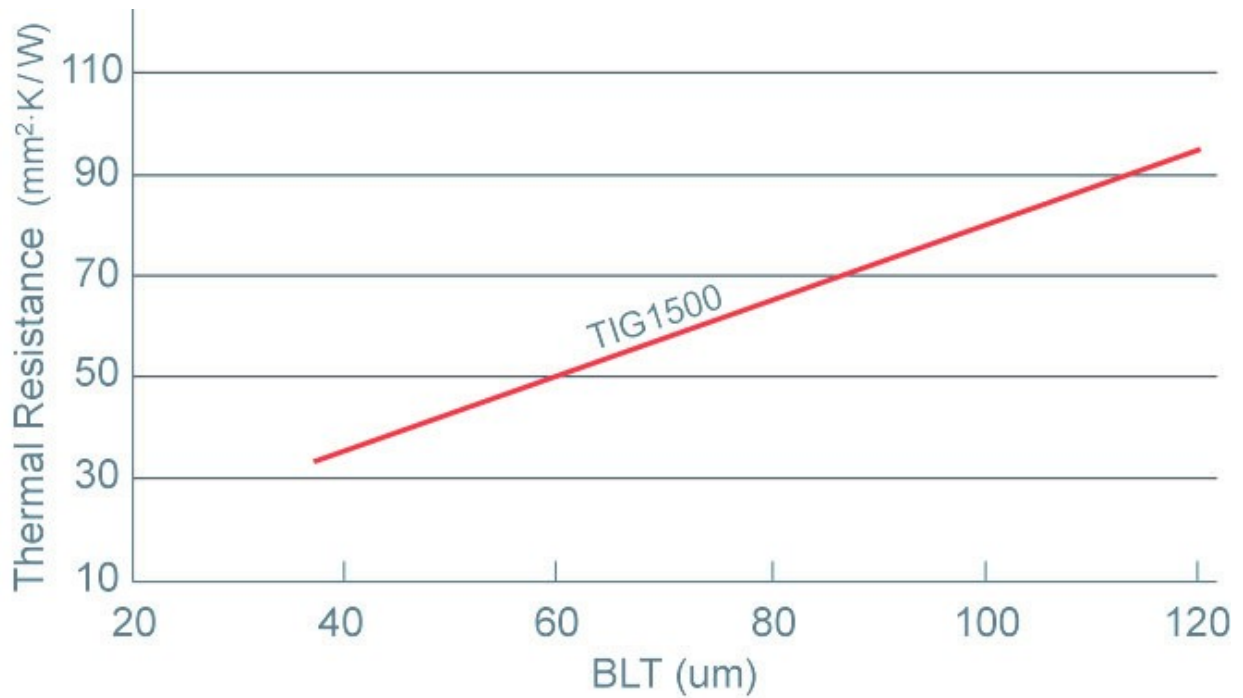
Property (23°C, 50%RH)		Value
Appearance		White Paste
Specific gravity	g/cm ³	2.6
Unworked penetration *1		275
Viscosity (20 rpm)	Pa·s	110
Evaporation (150 °C, 24h)	wt%	≤0.4
Thermal conductivity *2	W/(m·K)	1.6

Thermal resistance ^{*3} (BLT : 34μm)	mm ² ·K/W	35
Volume resistivity	Ω·cm	7.7x10 ¹⁴
Dielectric strength	kV/0.25mm	2.8
Dielectric Constant (60Hz)		5.7
Dissipation Factor (60Hz)		0.009
Volatile siloxane (D ₄ ~ D ₁₀)	ppm	<100

*1: JIS K 2220 *2: Hot wire method *3 : Laser flash method

Typical properties are average data and are not be used as or to develop specifications.

Thermal Resistance



Current Packaging

- 2kg can in case of 10

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety

information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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