

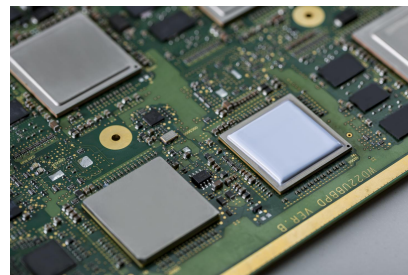
TG2000I, TG2800I, TG3000, TG3000I, TG4000 and TG5500 Thermal Silicone Grease

BENEFITS AND FEATURES

- Low viscosity and excellent thixotropy for dispensing, stencil printing, or screen printing
- Broad BLT range for different application
- Different thermal resistance and thermal conductivity for different power density
- High stability and reliability
- Stable homogeneous mixture under room temperature storage

OVERVIEW

Honeywell TG series Thermal Silicone Grease products provide superior thermal performance with ease of use across multitude of applications. Its low viscosity and excellent thixotropy enable it fit for large-scale production with dispensing, screen printing and stencil printing. It is designed to minimize thermal resistance at interfaces, and maintain excellent performance through reliability testing. TG series products are designed with different thermal impedance and thermal conductivity to meet the different power density in real application. Products are also available with different BLT to meet different interface flatness.



TYPICAL APPLICATIONS

- CPU, GPU and chipsets
- LED assemblies
- Automotive electronics
- IGBT & power units
- Flip-chip BGAs

STORAGE & USE

- Shelf Life 12 months at 23±2°C

Property	TG2000I	TG2800I	TG3000	TG3000I	TG4000	TG5500	Test Method
Color	Blue	Yellow	Grey	White	Grey	Grey	-
Specific Gravity	3.0	4.2	2.7	3.4	2.7	2.5	ASTM D792
Viscosity (cps@25°C)	90,000	100,000	150,000	200,000	200,000	300,000	Brookfield Viscometer
Thermal Conductivity (W/m·K)	2.0	2.8	3.0	3.0	4.0	5.5	Hot Disk
Thermal Impedance (°C·in²/W) (35psi, 50°C)	0.02	0.009	0.009	0.003	0.005	0.01	ASTM D5470
BLT(um) (35psi, 50°C)	30	25	25	10	23	23	HON Internal
Volume Resistivity (ohm·cm)	1.0×10^{13}	1.3×10^{13}	1.0×10^{12}	2.0×10^{12}	1.0×10^{12}	1.0×10^{12}	ASTM D257
Dielectric Constant (@ 1MHz)	>6	>14	>10	>10	>10	>10	ASTM D150
Flammability Rating	V-0	V-0	V-0	V-0	V-0	V-0	UL 94
Working Temperature (°C)	-40-150	-40-150	-40-150	-40-150	-40-150	-40-150	-

Honeywell Electronic Materials

USA: 1-509-252-2102
 China: 400-840-2233
 Germany: 49-5137-999-9199
 Japan: 81-3-6730-7092
 Korea: 82-2-3483-5076
 Singapore: 65-6580-3593
 Taiwan: 886-3-6580300 ext.312
www.electronicmaterials.com

Although all statements and information contained herein are believed to be accurate and reliable, they are presented without guarantee or warranty of any kind, express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liability for use of the information and results obtained. Statements or suggestions concerning the use of materials and processes are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all toxicity data and safety measures are indicated herein or that other measures may not be required.

DS.0318Rev2
 ©2019 Honeywell International Inc.