

# G3380A/B/K/T

## Thermal Grease

LiPOLY G3380 thermal interface grease has low thermal resistance and great thermal conductivity. G3380 has been used extensively in Consumer electronics and Microprocessors for their thermal control techniques. The grease can cover several coats on the component interface. When the component's temperature rises, the grease stickiness will decrease, which can moisten the interface components.

### ■ FEATURES

- / Thermal conductivity: 1.3 / 3.2 / 4.5 / 6.0 W/m\*K
- / Low thermal impedance
- / Can be applied manually dispensed or screen printed
- / Low minimum bond line

### ■ TYPICAL APPLICATION

- / LED appliance
- / EV electric vehicle
- / CPU and chip coolers
- / Switching power supplies
- / 5G base station & infrastructure
- / Between any heat-generating component and heat sink



### ■ CONFIGURATIONS

- / Tinplate Can: 1kg
- / Other special and custom sizes are available upon request

### ■ PRESERVATION

It can be preserved for 60 months under the condition of unopened and under room temperature 25°C.

### ■ TYPICAL PROPERTIES

PROPERTY	G3380A	G3380B	G3380K	G3380T	TEST METHOD	UNIT
Color	White	Gray	Gray	Gray	Visual	-
Resin base	Silicone	Silicone	Silicone	Silicone	-	-
Filler	Non-Metal	Non-Metal	Non-Metal	Non-Metal	-	-
Viscosity	16.5	130	104	181	ISO 3219	Pa.s
Density	2.2	2.7	2.7	2.7	ASTM D792	g/cm <sup>3</sup>
Application temperature	-60~180	-60~180	-60~180	-60~180	-	°C
Bond line thickness	55	33	30	30	-	µm
Shelf life	60 months	60 months	60 months	60 months	-	-
ROHS & REACH	Compliant	Compliant	Compliant	Compliant	-	-
<b>ELECTRICAL</b>						
Dielectric breakdown	14	11	11	11	ASTM D149	KV/mm
Volume resistivity	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>						
Thermal conductivity	1.3	3.2	4.5	6.0	ASTM D5470	W/m*K
Thermal impedance@50psi	0.05	0.03	0.02	0.01	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@50psi	32.2	19.3	12.9	6.4	ASTM D5470	°C-mm <sup>2</sup> / W

Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LiPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LiPOLY. Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific purpose. The purchaser needs to evaluate and verify the safety before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product under the purchaser's specific conditions. Liability and use of the product are the responsibility of the end user. LiPOLY makes no warranty as to the suitability, merchantability, or non-infringement of any LiPOLY material or product for any specific or general uses. LiPOLY shall not be liable for incidental or consequential damages of any kind. All LiPOLY products are sold in accordance with the LiPOLY Terms and Conditions in effect at the time of purchase and a copy of which will be furnished upon request. All rights reserved, including LiPOLY trademarks or registered trademarks of LiPOLY or its affiliates. Statements concerning possible or suggested uses made herein shall not be relied upon or be constructed as a guaranty of patent infringement. Copyright LiPOLY.