



# Thermal Gel 21-390



## FEATURES & BENEFITS

- Thermal Conductivity:9.0 W/m-K
- High Reliability
- Easily Dispensable
- Pre-Cured
- Electrically Isolating
- Low Thermal Resistance



## APPLICATIONS

- Cooling components to chassis, frame, or other mating components
- Memory modules
- Mass storage devices
- Automotive electronics
- Telecommunication hardware
- Power electronics
- LCD and PDP flat panel
- Audio and video component
- IT infrastructure
- GPS navigation and other portable devices

JONES Thermal Gel 21-390 is a soft, single part, silicone putty thermal gap filler no cure is required. This gap filler is designed to be used in where large gap tolerances are present and low mechanical stress on delicate components are needed. It is ideal for filling variable gaps between multiple components and a common heat sink.

JONES Thermal Gel 21-390 has a composition which yields superior thermal performance and super compliancy. This material transfers little to no pressure between interfaces. Specialized rheology allows for easy flow under pressure.



## TYPICAL PROPERTIES

	Properties	Thermal Gel 21-390	Test Method
<b>Thermal</b>	Thermal Conductivity (W/m·K)	9.0	ASTM D5470
	Operating Temperature Range (°C)	-55~150	JONES Test Method
<b>Physical</b>	Color	Blue	Visual
	Composition	Ceramic & Silicone	-
	Density (g/cc)	3.2	ASTM D792
	Flow Rate (g/min)	45	90 Psi,EFD180cc @ Ø3.17mm nozzle
	Typical Minimum Bondline Thickness (mm)	0.24	JONES Test Method
<b>Electrical</b>	Breakdown Voltage (KV AC /mm)	> 6	ASTM D149
	Volume Resistivity (Ohm·cm)	10 <sup>^</sup> 13	ASTM D257
	Dielectric Constant @1MHz	6.2	ASTM D150
<b>Regulatory</b>	Flammability Rating	V0	UL 94

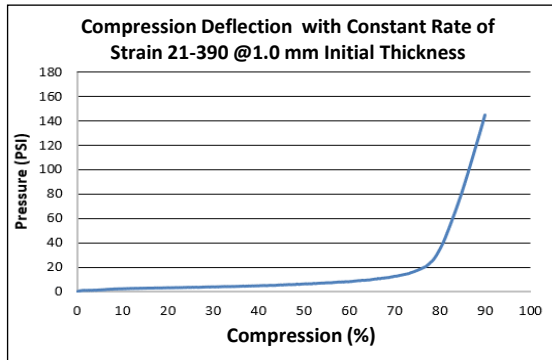


## TEST RESULTS

21-390 Thermal Gel 1.0 mm Initial Thickness; 1 inch<sup>2</sup> Specimen Area;

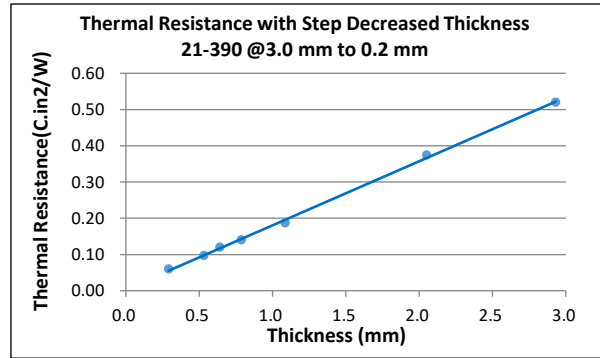
### Compression Deflection

Rate of strain = 1.0 mm/min



### Thermal Resistance

Decreased Thickness step = 0.1 mm



## PART NUMBER SYSTEM

**21 - 3 XX - AB - YYY**

① ② ③ ④ ⑤

- ① 21-Thermal management material
- ② 3- Thermal Gel
- ③ XX- Thermal Performance
- ④ AB- Optional style
- ⑤ YYY- Package Size



## ORDERING INFORMATION

### Part Number Examples

21-390-040-460G=Thermal Gel 21-390 in a 180 cc Cartridge (460 g)

21-390-070-13KG=Thermal Gel 21-390 in a 1 Gallon Pail (13 Kg)

Customizable packaging

### Storage Requirement

0°C to 35°C, 50%RH, sealing preservation

6 months from date of manufacture.

\* Unopened Original Package

### HANDLING PRECAUTIONS

#### FOR SAFE HANDLING

INFORMATION OF THIS PRODUCT,  
PLEASE CONTACT WITH YOUR  
JONES REPRESENTATIVE FOR THE  
SAFETY DATA SHEET (SDS).

### LIMITED WARRANTY INFORMATION

The information provided in this Technical Data Sheet including the recommendations for use and applicaiton of the product are based on our knowledge and experience of the product as at the data of this TDS. Jones Corp is not, therefore, liable for the suitability of any Jones Corp products for any specific or general uses. Jones Corp shall not be liable for incidental or consequential damages of any kind.

### FOR MORE INFORMATION

About our high performance materials, solutions and capabilities, please visit our website:

<http://www.jones-corp.com>

### Disclaimer

- The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the issuing date of this TDS. When using our products, no matter what type of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this TDS are subject to change without prior notice.
- Do not use the products beyond the specifications described in this TDS. This TDS explains the typical performance of the products as individual component. Before use, check and evaluate their operations when installed in your products.
- The product provided in this TDS compliance with HSF.

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