

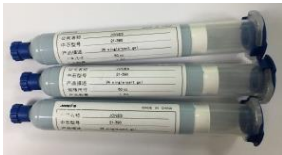
Thermal Gel 21-390

Version TDS. 21-390. V.A.0

Description

21-390 Series Thermal Gel is a soft, singlepart, silicone putty thermal gap filler in which 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.

21-390 Series Thermal Gel has a composition which yields superior thermal performance and super



Benefits

- Soft and compliant transferring little to no pressure between interfaces
- Thermal conductivity: 9.0 W/m-K
- Easily dispensable
- Fully-cured
- Electrically Isolating
- Low thermal resistance

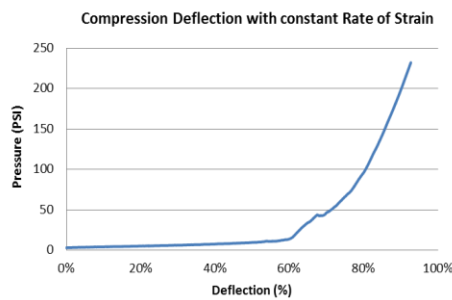
Applications

- Cooling components to chassis, frame, or other mating components
- Memory modules
- Home and small office network equipment
- Mass storage devices
- Automotive electronics
- Telecommunication hardware
- Radios
- LED solid state lighting
- Power electronics
- LCD and PDP flat panel
- Set top boxes
- Audio and video component
- IT infrastructure
- GPS navigation and other portable

Typical Properties

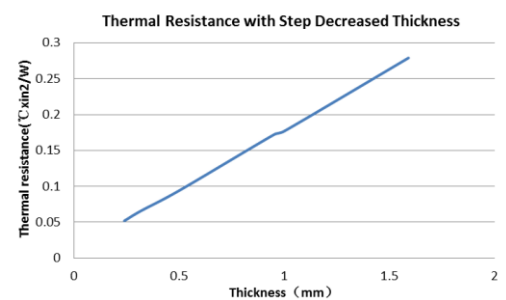
Properties	21-390	Test Method
Thermal	Thermal Conductivity (W/m-K)	9.0
	Continuous Use Temp. (°C)	-55~150
	Color	Blue
	Density (g/cc)	3.14
Physical	Flow Rate (g/min)	40
	Typical Minimum Bondline Thickness (mm)	0.24
Electrical	Dielectric Strength (kV/mm)	5
	Volume Resistivity (ohm-cm)	10 ¹²
	Dielectric Constant @1MHz	10
Regulatory	Flammability Rating	TBD
	Self Life (Months)	6
	RoHS Compliant	TBD
		ASTM D5470
		/
		Visual
		ASTM D792
		EFD180cc 3.17mm syringe needle @ 90psi
		JONES
		ASTM D149
		ASTM D257
		ASTM D150
		UL 94
		0~35°C, <50%RH
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Compression Deflection



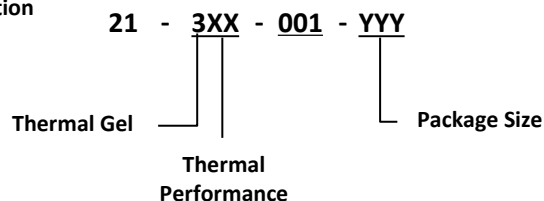
*Specimen Area: 1inch²
Rate of strain= 1.0mm/min

Thermal Resistance



*Specimen Area: 1inch²
The thickness of sample is controlled by limit slice
Decreased Thickness step = 0.1mm

Ordering Information



Part Number Examples

21-390-001-300M=Thermal Gel 21-390 in a 300 CC cartridge (800G)

21-390-001-005G=Thermal Gel 21-390 in a 5 Gallon pail (20-25Kg)

Disclaimers

- 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.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.



