

Thermal Gel 21-361

Version TDS.21-361.V.B.2

Description

21-361 Series Thermal Gel is a soft, single part, 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.

21-361 Series Thermal Gel 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.



Benefits

- Soft and compliant transferring little to no pressure between interfaces
- Thermal conductivity: 6.0 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 devices

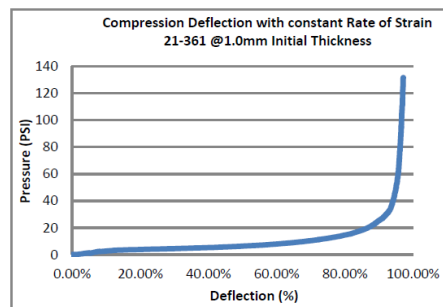
Disclaimers

- 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.

Typical Properties

Properties	21-361	Test Method
Thermal	Thermal Conductivity (W/m-K)	6.0
	Operation Temperature Range(°C)	-55~150
Physical	Color	Pink
	Density (g/cc)	3.35
	Flow Rate (g/min)	18
Electrical	Typical Minimum Bondline Thickness (mm)	0.15
	Breakdown Voltage (KV/mm)	>6
Regulatory	Volume Resistivity (ohm-cm)	>10 ¹³
	Dielectric Constant @1MHz	11
Regulatory	Flammability Rating	V0
	Self Life (Months)	6
	RoHS	YES

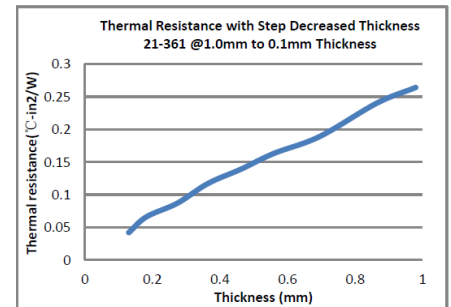
Compression Deflection



*Specimen Area: 1inch²

Rate of strain= 1.0mm/min

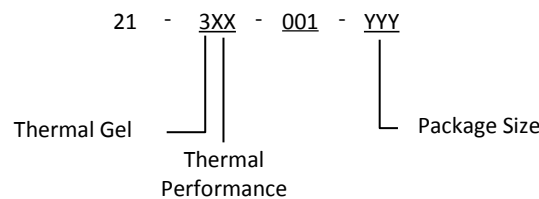
Thermal Resistance



*Specimen Area: 1inch²

The thickness of sample is controlled by limit slice
Decreased Thickness step = 0.1mm

Ordering Information



Part Number Examples

- 21-361-001-050M = Thermal Gel 21-361 in a 150 g (50cc) cartridge
- 21-361-001-180M = Thermal Gel 21-361 in a 500 g (180cc) cartridge
- 21-361-001-300M = Thermal Gel 21-361 in a 800 g (300cc) cartridge
- 21-361-001-001G = Thermal Gel 21-361 in a 8~13 kg (1 Gallon) pail
- 21-361-001-005G = Thermal Gel 21-361 in a 25 kg (5 Gallon) pail

