



Thermal Gel 21-335D

FEATURES & BENEFITS

- Thermal Conductivity :3.5W/m-K
- Minimal stress imparted to components during assembly
- Easy for rework
- Easily dispensable
- Cured at room Temperature
- Electrically Isolating
- Low Thermal Resistance
- High Reliability



APPLICATIONS

- Cooling components to chassis, frame, or other mating components
- Home & Small Office Network
- Mass Storage Devices
- Automotive Electronics
- Telecommunication Hardware
- LED Solid State Lighting
- Power Electronics

JONES Thermal Gel 21-335D is a two-part dispensable materials compounded with thermal conductive fillers and silicone matrix. It demonstrates high thermal conductivity, good thermal performance and high reliability. In addition to providing variable gap adaption, it will impart little and reduced stress on components during assembly.

JONES Thermal Gel 21-335D is ideal for applications that require a higher flow rate and easy reworking.

TYPICAL PROPERTIES

	Properties	Thermal Gel 21-335D	Test Method
Thermal	Thermal Conductivity (W/m-K)	3.5	ASTM D5470
	Operating Temperature Range (°C)	-55~150	JONES Test Method
Physical	Composition	Ceramic & Silicone	-
	Color	PartA: Green PartB: White	Visual
	Flow Rate (g/min)_mixed	21	90psi,50cc @ 21 Elements static mixer
	Density (g/cc)	3.0	ASTM D792
	Mix Ratio	1:1	-
	Pot Life After Mixing @ 25 °C (h)	3	Time for Viscosity to Double
	Cure Condition @ 25 °C (h)	24	Rheometer
	Cure Condition@ 120 °C (min)	20	Rheometer
	Color After Curing	Light Green	Visual
Electrical	Hardness (Shore 00)	45	ASTM D2240
	Breakdown Voltage (KV AC/mm)	>5	ASTM D149
	Volume Resistivity (Ohm-cm)	10 ¹³	ASTM D257
	Dielectric Constant @1MHz	5.9	ASTM D150
Regulatory	Flammability Rating	V0	UL 94



TEST RESULTS

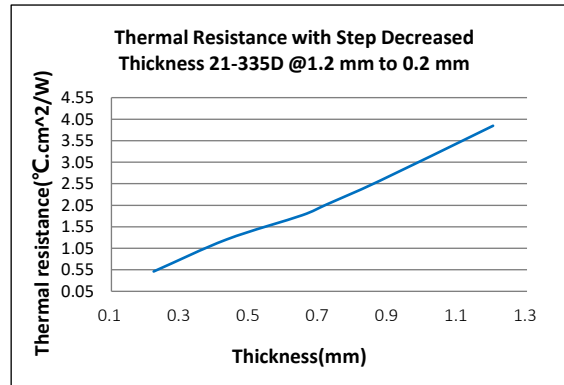
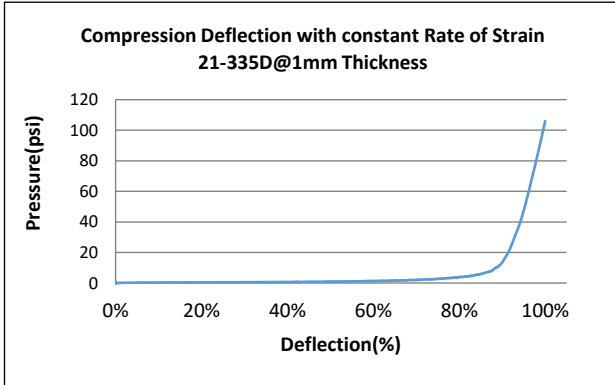
21-335D Thermal Gel 1.0 mm Initial Thick; 1 inch² Specimen Area;

Compression Deflection

Rate of strain = 1.0 mm/min

Thermal Resistance

Decreased Thickness step = 0.1mm
(From 1.2mm to 0.2mm)



*Test Before Curing



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(H-customerization code)
- ⑤ YYY- Package Size



ORDERING INFORMATION

Part Number Examples

21-335D-032-150G=Thermal Gel 21-335D in a 50cc (150 g) cartridge;

21-335D-062-800G=Thermal Gel 21-335D in a 300cc (800 g) cartridge

21-335D-102-1000=Thermal Gel 21-335D in a 400cc (1kg) cartridge

21-335D-080-30KG=Thermal Gel 21-335D in a 5 Gallon Pail (30kg)

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 application 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.

JONES TECH PLC
3 Dong Huan Zhong Road, BDA, Beijing 100176 China
TEL: +86 10 6786 2636 FAX: +86 10 67860291
E-mail: sales@jones-corp.com

