

Phase Change thermal interface material PCM 21-725G

Version TDS.21-725G.V.B.3

Description

PCM 21-725G, phase change interface thermal material, is designed to maximize heat sink performance and improve component reliability. It minimize thermal resistance at interfaces, maintain excellent performance when it fills interfacial gaps and voids.

At room temperature, 21-725G can be printed or coated, recommended drying to solid before using. Upon reaching its softening temperature of ~50 °C, PCM 21-725G begins to soften and flow, filling the microscopic irregularities of the component it comes into contact with. The result is an interface with minimal bond-line thickness and thermal contact resistance.



Benefits

- Low thermal resistance
- Phase change ~50°C
- Excellent interface watability
- High reliability: high polymer
- RoHS compliant
- Form: grease

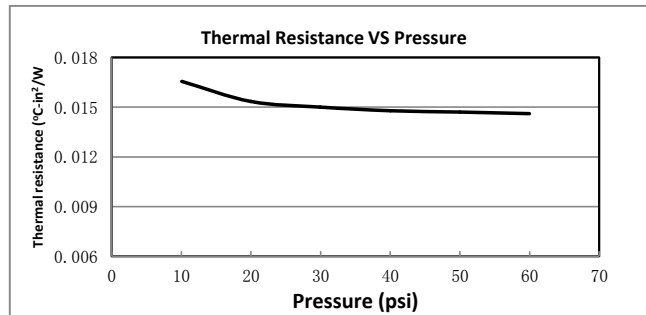
Applications

- CPUs (Notebooks, Desktops, Servers)
- Chipsets
- GPUs
- ASICS Chips

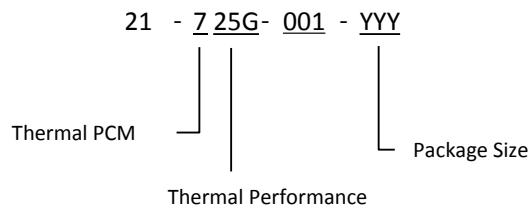
Typical Properties

Properties	21-725G	Test Method
Thermal	Phase Change Softening Temp. (°C)	~50
	Thermal Resistance (°C-in ² /W)*	
	10 psi (69 KPa)	0.017
	25 psi (172 KPa)	0.016
	50 psi (345 KPa)	0.015
Continuous Use Temp. (°C)	-40~125	
Physical	Color	Grey
	Dry Time (h)	2
	Density (g/cm ³)	2.2
Electrical	Volume Resistivity (ohm-cm)	8*10 ¹³
Regulatory	Flammability Rating	V0
	RoHS Compliant	YES
	Shelf Life (months)	6

Thermal Resistance



Ordering Information



Standard Package 21-725G-001-001L = thermal PCM 21-725G 1L can (1.5kg)

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.
- 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.

