

TP 500

Elevated Performance Gap Filler Pad

TP500 thermal conductive silicone pad is a kind of material with high thermal conductivity. It is double-sided self-adhesive. When assembling with electronic components, it shows low thermal resistance and better electrical insulation characteristics under low compression force. It can work stably at -40°C~200°C and meet the flame retardant grade requirements of UL94V0.



Features and Benefits

- 5.0 W/mK
- Naturally tacky, easing application
- Low pressure versus deflection
- Excellent, high volume applications
- Elevated Temperature Resistance

Typical Applications

- Networking and Telecommunications
- IT: BGA, ASIC, VRM, high speed storage
- Industrial: LEDs, Power Supplies and Conversion
- Automotive: Control Modules, Turbo Actuators
- Consumer Electronics: Gaming Systems, LCDs, and Graphic Cards

Typical Properties		
Attribute	Value	Test Method
	TP 500	-
Composition	Ceramic Filler + Silicone	-
Color	Green	Visual
Thickness (mm)	0.5 to 6.0	ASTM D374
Density (g/cc)	3.2	ASTM D792
Hardness (Shore OO)	50(Thickness≤1.0 Shore OO 60)	ASTM D2240
Usage Temperature (°C)	- 40 to 200	-
Electrical		
Breakdown Voltage (kV/mm)	≥ 6.0	ASTM D149
Volume Resistivity (Ω.cm)	10 ¹⁰	ASTM D257
Dielectric Constant @1MHz	7.4	ASTM D150
Flammability	V-0	UL 94
Thermal		
Thermal Conductivity (W/m-K)	5.0	ISO 22007-2

Storage

Store in a cool, dry, well-ventilated place.

Shelf life

Shelf life of the product is 12 months after date of shipment

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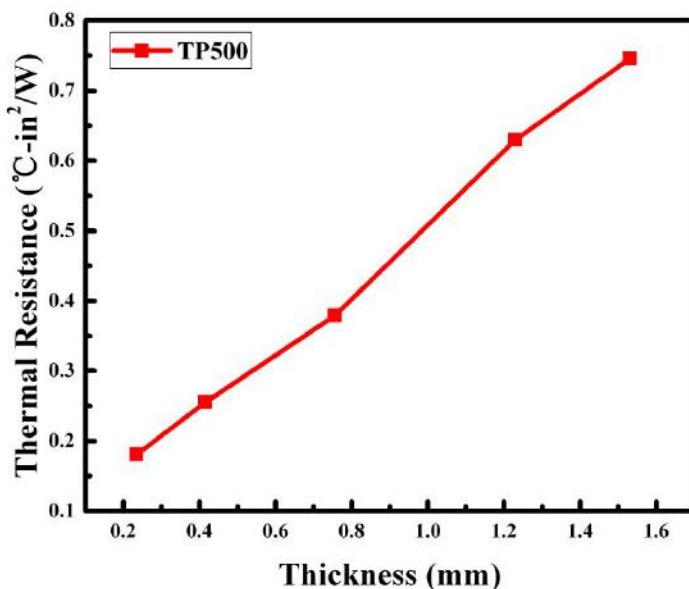


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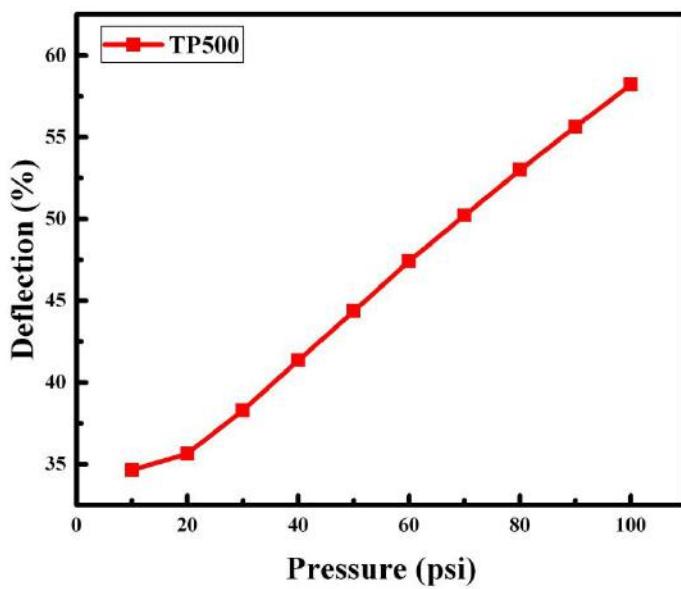
Thickness vs. Thermal Resistance

Reference only



Pressure vs. Deflection

Reference only



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