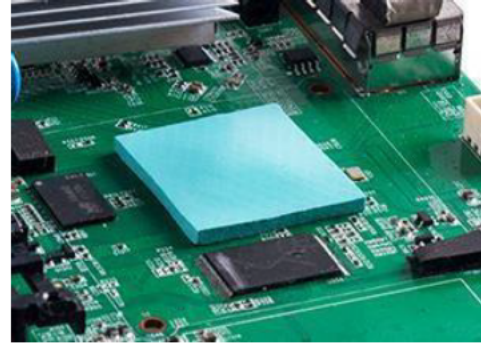


Patron THER TP 500

Elevated Performance Gap Filler Pad

TP 500 is a 5 W/mK thermal gap filler, in the TP line of products. With high conductivity combined with a hardness of 60 (shore 00), TP500 is excellent for applications requiring low contact resistance, low pressure vs. deflection, and low thermal resistance. TP 500 will provide the overall performance required.



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, TurboActuators
- 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 00)	50	ASTM D2240
Usage Temperature (°C)	- 40 to 150	-
Electrical		
Breakdown Voltage (kV/mm)	≥ 6.0	ASTM D149
Volume Resistivity (Ω.cm)	10 ¹⁰	ASTM D257
Dielectric Constant @10MHz	7.4	ASTM D150
Flammability	V-0	UL 94
Thermal		
Thermal conductivity (W/m-K)	5.0	ASTM D5470

Storage

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

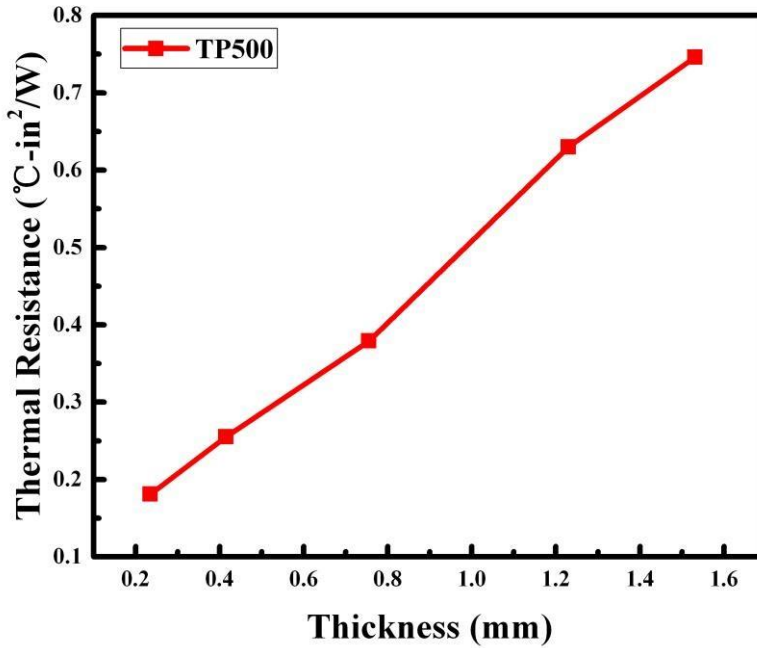
Shelf life

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

Elevated Performance Gap Filler Pad

Thickness vs. Thermal Resistance

Reference only



Pressure vs. Deflection

Reference only

