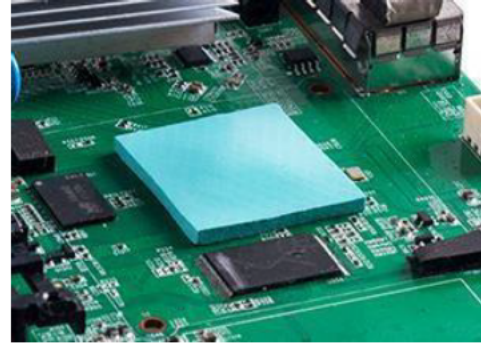


# Patron THER TP 500

## 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 <sup>10</sup>	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.

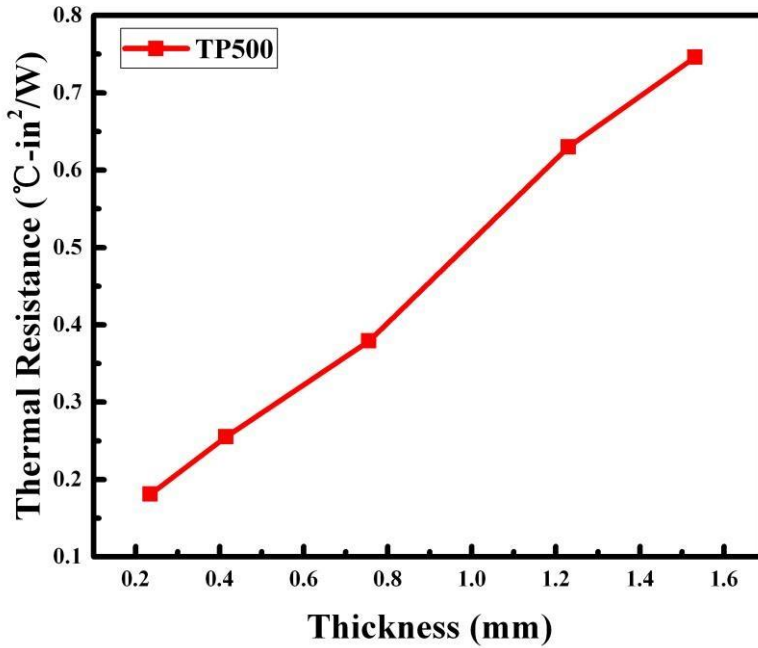
### Shelf life

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

