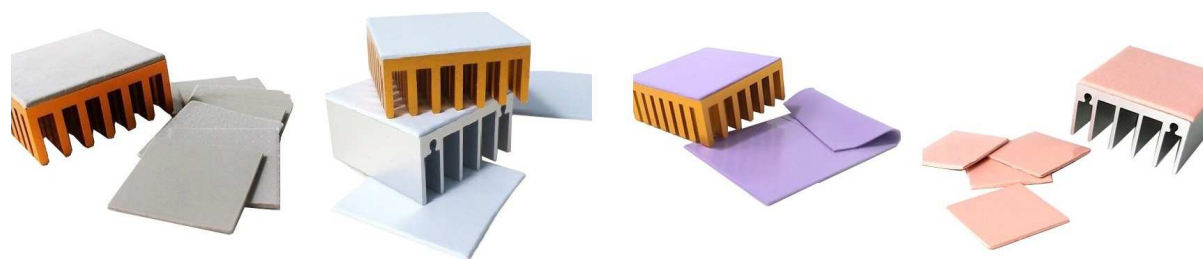


Thermal Interface Material (TIM Series)



Description :

TIM series is effective in lower the thermal resistance between heat source and heat sink. The Thermal Pad use silicone as the base material, adding thermal conductive powder and flame retardant together to make the mixture to become thermal interface material.

Application :

Used for high power and high wattage electronics, for example Electric Vehicles, 5G technology, Autopilot System, Mobile Phone, AIoT, HPC (High Performance Computing), Server, IC, CPU, MOSFET, LED, Mother Board, Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecom Device, Wireless Hub, Memory Module, etc.

Property	TIM-017	TIM-040	TIM-070	Test Method
Thermal Conductivity	1.7 W/mK	4.0 W/mK	7.0 W/mK	ASTM D5470
Color	Purple	Blue	Pink	Visual
Thickness	0.25~25.0 mm	0.3~7.0 mm	0.3~3.0 mm	ASTM D374
Hardness	15±5 (Shore A)	6±2 (Shore A)	9±2 (Shore A)	ASTM D2240
Density	1.8±0.2 g/cm ³	2.44±0.2 g/cm ³	3.24±0.2 g/cm ³	ASTM D792
Breakdown Voltage	>6.0 KV	15 KV	16 KV	ASTM D149
Volume Resistivity	>10 ¹³ Ω.cm	>10 ¹³ Ω.cm	>10 ¹³ Ω.cm	ASTM D257
Elongation	75±10 %	130%	50±10 %	ASTM D412
Tensile Strength	7±3 Kgf/cm ²	1.0 Kgf/cm ²	1.6 Kgf/cm ²	ASTM D412
Working Temperature	-45~+200 °C	-40~+160 °C	-50~+200 °C	-

Thermal Interface Material (TIM Series)

Property	TIM-090	TIM-120	Test Method
Thermal Conductivity	9.0 W/mK	12.0 W/mK	ASTM D5470
Color	Pink	Gray	Visual
Thickness	1.0~10.0 mm	0.5~3.0 mm	ASTM D374
Hardness	40 (Shore 00)	10±2 (Shore A)	ASTM D2240
Density	3.28 g/cm ³	3.45±0.2 g/cm ³	ASTM D792
Breakdown Voltage	>5.0 KV	16 KV	ASTM D149
Volume Resistivity	>10 ¹² Ω.cm	>10 ¹³ Ω.cm	ASTM D257
Elongation	-	30±5 %	ASTM D412
Tensile Strength	-	0.7 Kgf/cm ²	ASTM D412
Working Temperature	-40~+150 °C	-50~+200 °C	-