

TIM-GAP HTC-16

Thermally Conductive Silicone Gap Filler

DESCRIPTIONS

TIM-GAP HTC-16 is highly thermally conductive gap filler sheet, specially designed for high heat flux applications to achieve low thermal resistance and efficient cooling. Naturally tacky texture helps to achieve full interface contact and ease of production.

TIM-GAP HTC-16 is designed with flame retardant silicone polymer filled with thermally conductive fillers for a wide range of applications. It will provide superb protection against toughest heat transfer problems

KEY FUTURES AND BENEFITS

- **High Thermal Conductivity (16 W/m-k)**
- **Low Thermal Resistance**
- Electrical Insulator
- Low hardness/Natural Tack
- Long term reliability

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Graphic chips/Microprocessors to heat sinks
- Overclocking
- Power conversion, LED, Automotive(ECU's)

AVAILABILITY

Available Thickness (mm): 0.3, 0.5, 1.0, 1.5, 2.0

Available Configurations: Sheet form (200mm x 150mm or 200mm x 300mm) and die- cut parts

Typical Property	Test Method	Value
Color	Visual	Gray
Specific Gravity, @ 25°C	ASTM D792	3.2
Hardness (Shore 00)	ASTM D2240	72
Elongation (%)	ASTM D412	40
Tensile Strength (PSI)	ASTM D412	72
Tear Strength (N/mm)	ASTM D624	1.0
Flammability	UL 94	V-0 Equivalent
Operating Temperature Range.		-55°C to 150°C
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	16.0
Thermal Resistance (°C-in ² /w) (14psi, 0.3mm thickness)	ASTM D5470	0.07
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	10
Withstand Voltage (KV/mm)	ASTM D149	ND
Dielectric Constant (1KHz)	ASTM D150	7.2
Dissipation Factor (1KHz)	ASTM D150	0.05
Volume Resistivity (Ohm-m)	ASTM D257	1.0 x 10 ¹²

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