

TIM-PAD 1001

Thermally Conductive Silicone Pad

DESCRIPTIONS

TIM-PAD 1001 is thermally conductive and electrically insulating silicone pads. They are clean, production friendly and efficient alternative to mica, ceramics or grease and will provide superb protection against damage due to deformation, shock or vibration. Cost-effective, maximize heat transfer from electronic components to heat sink or heat spreaders. Excellent mechanical and physical characteristics with efficient heat dissipation. Flame retardant with excellent cut-through resistance

KEY FUTURES AND BENEFITS

- **Thermal Conductivity (1.1 W/m-k)**
- Cost-Effective Solution
- Clean and easy to apply
- Reinforcements to resist cut-through
- Resistance to electrical shorting

APPLICATIONS

- Interface for discrete semiconductors requiring low pressure or spring clamp mounting
- Isolate power sources from heat sink
- High power control electronics
- Power conversion

AVAILABILITY

Available Thickness (mm): 0.15, 0.20, 0.30

Available Configurations: Rolls, sheets and custom cut parts. With or without adhesive

Property	Test Method	Value
Type		Silicone
Reinforcement		Fiberglass
Adhesive Coating		With or without
Color	Visual	Gray
Specific Gravity, @ 25°C	ASTM D792	2.3
Hardness (Shore A)	ASTM D2240	87
Elongation %	ASTM D412	>2
Tensile Strength. PSI	ASTM D412	10,000
Flammability (Equivalent)	UL 94	V-0
Operating Temperature Range.		-40°C to 150°C
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	1.1
Thermal Resistance (°C.in ² /w) (0.15mm Th)	ASTM D5470	0.55
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	11
Dielectric Constant (1KHz)	ASTM D150	4.5
Dissipation Factor (1KHz)	ASTM D150	0.003
Volume Resistivity (Ohm-m)	ASTM D257	1 x 10 ¹³

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