

TIM-PAD 1002

Thermally Conductive Silicone Pad

DESCRIPTIONS

TIM-PAD 1002 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 (1.6 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. Available with adhesive

Property	Test Method	Value
Type		Silicone
Reinforcement		Fiberglass
Adhesive Coating		Available
Color	Visual	Brown
Specific Gravity, @ 25°C	ASTM D792	2.4
Hardness (Shore A)	ASTM D2240	92
Elongation %	ASTM D412	>2
Tensile Strength. PSI	ASTM D412	5690
Flammability (Equivalent)	UL 94	V-0
Operating Temperature Range.		-40°C to 150°C
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	1.6
Thermal Resistance (°C.in ² /w) (0.20mm Th)	ASTM D5470	0.55
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	6
Dielectric Constant (1KHz)	ASTM D150	3.3
Dissipation Factor (1KHz)	ASTM D150	0.003
Volume Resistivity (Ohm-m)	ASTM D257	1 x 10 ¹³

DISCLAIMER: All statements, technical information, and recommendations related to Timtronics products are based on information believed to be reliable, but accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You must assume all risks and liability associated with such use. Timtronics will not be liable for any indirect, special, incidental or consequential loss or damage arising from this product. regardless of legal theory asserted.