

TIM-GEL PAD

Thermally Conductive Silicone Pad

DESCRIPTIONS

TIM-GEL PAD is Soft, easily compressible thermal interface pad designed to meet industry's rapidly growing need for interface material with high thermal conductivity and conformability for low stress applications.

TIM-GEL PAD is designed with flame retardant silicone polymer filled with thermally conductive fillers for a wide range of applications. It will provide superb protection against damage due to deformation as well as shock or vibration.

KEY FUTURES AND BENEFITS

- **Thermal Conductivity (1.6 W/m-k)**
- **Low Hardness, Naturally Tacky**
- **Soft, easily compressible**
- low stress on component

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Graphic chips to heat sinks
- Industrial controls units

AVAILABILITY

Available Thickness (mm): 0.25

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

Typical Property	Test Method	Value
Color	Visual	Gray
Specific Gravity, @ 25°C	ASTM D792	2.6
Hardness (Shore 00)	ASTM D2240	49 (Shore 00)
Elongation (%)	ASTM D412	15
Tensile Strength (PSI)	ASTM D412	15
Tear Strength	ASTM D624	11,000
Flammability	UL 94	V-0 Equivalent
Operating Temperature Range.		-55°C to 150°C
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	1.6
Thermal Resistance (°C-in ² /w) (14psi,0.25mm thickness)	ASTM D5470	0.39
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	5
Dielectric Constant (1KHz)	ASTM D150	4
Dissipation Factor (1KHz)	ASTM D150	0.003
Volume Resistivity (Ohm-m)	ASTM D257	1 x 10 ¹³

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