

TIM-GAP 1161

Thermally Conductive Silicone Gap Filler

DESCRIPTIONS

TIM-GAP 1161 is soft easily compressible thermal interface gap filler pad designed to meet industry's rapidly growing need for interface material with high thermal conductivity, low thermal resistance and conformability.

TIM-GAP 1161 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 (6.1 W/m-k)**
- Low Thermal Resistance
- Electrical Insulator
- Clean and easy application
- Shock absorbing Characteristics

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Graphic chips to heat sinks
- Mass storage drives
- Power conversion, LED, Automotive

AVAILABILITY

Available Thickness (mm): 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0
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	3.2
Hardness (Shore 00)	ASTM D2240	45
Elongation (%)	ASTM D412	50
Tensile Strength (PSI)	ASTM D412	23
Tear Strength (N/mm)	ASTM D624	0.5
Flammability	UL 94	V-0 Equivalent
Operating Temperature Range.		-55°C to 150°C
THERMAL		
Thermal Conductivity (W/m-K)	ASTM D5470	6.1
Thermal Resistance (°C-in ² /w)(14psi,1.0mm thickness)	ASTM D5470	0.37
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	14
Withstand Voltage (KV/mm)	ASTM D149	ND
Dielectric Constant (1KHz)	ASTM D150	8.1
Dissipation Factor (1KHz)	ASTM D150	0.02
Volume Resistivity (Ohm-m)	ASTM D257	1.5 x 10 ¹¹

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.