

TIM-GAP NS

Non-Silicone Thermally Conductive Gap Filler

DESCRIPTIONS

TIM-GAP NS is thermally conductive Non-Silicone gap filler sheet, specially designed where silicone contamination or outgassing cannot be tolerated in sensitive applications. Offers excellent thermal performance in electronic applications.

TIM-GAP NS is designed with acrylic polymer filled with thermally conductive fillers for a wide range of applications.

KEY FUTURES AND BENEFITS

- **Thermal Conductivity (1.6 W/m-k)**
- **No silicone outgassing or extractable**
- Electrical Insulator
- Clean and easy to apply
- Long term reliability

APPLICATIONS

- Hard disk drives/storage
- Aerospace/Defense.
- Telecommunications equipment
- Optical electronics
- Automotive electronics

AVAILABILITY

Available Thickness (mm): 0.5, 1.0, 1.5, 2.0, 2.5, 3.0

Available Configurations: Sheet form (200mm x 300mm) and die-cut parts
With Fiber glass mesh and/or Hardened surface

Typical Property	Test Method	Value
Color	Visual	Light Gray
Specific Gravity, @ 25°C	ASTM D792	2.1
Hardness (Shore 00)	ASTM D2240	53
Elongation (%)	ASTM D412	150
Tensile Strength (PSI)	ASTM D412	30
Tear Strength (N/mm)	ASTM D624	1.5
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, 0.5mm thickness)	ASTM D5470	0.62
ELECTRICAL		
Breakdown Voltage (KV/mm)	ASTM D149	11
Withstand Voltage (KV/mm)	ASTM D149	ND
Dielectric Constant (1KHz)	ASTM D150	7.2
Dissipation Factor (1KHz)	ASTM D150	0.04
Volume Resistivity (Ohm-m)	ASTM D257	1.0 x 10 ¹²

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