



COMPLIANT 2.8 W/mK THERMALLY CONDUCTIVE GAP FILLER

Tflex™ 500 is a compliant elastomer gap filler designed to provide excellent thermal performance while remaining cost effective. This soft interface pad conforms well with minimal pressure, resulting in little or no stress on mating parts. Tflex™ 500's unique silicone and filler combination has extremely low silicone extractables compared to many other silicone interface products. Tflex™ 500 meets NASA outgassing specification.

Tflex™ 500 is naturally tacky, no adhesive coating is required. Tflex™ 500 is electrically insulating, stable from -50°C to 200°C and is certified to UL 94V0 flammability rating.

FEATURES AND BENEFITS

- Thermal conductivity 2.8 W/mK
- Highly compliant and cost effective
- Low thermal resistance even at low pressure
- Available in thicknesses from 0.020-inch (0.25mm) through 0.200-inch (5.0mm) in 0.010-inch increments
- Naturally tacky for easy assembly
- Low silicone extractables

APPLICATIONS

- Cooling components to chassis
- Telecommunication hardware
- Thermal module for notebook computer
- LED solid state lighting
- Power electronics
- Computer servers
- Graphics cards
- Gaming systems
- LCD and PDP flat panel displays
- Industrial automation equipment
- Wireless infrastructure
- Fragile ASIC components
- Automotive engine control
- IT devices
- Military electronics

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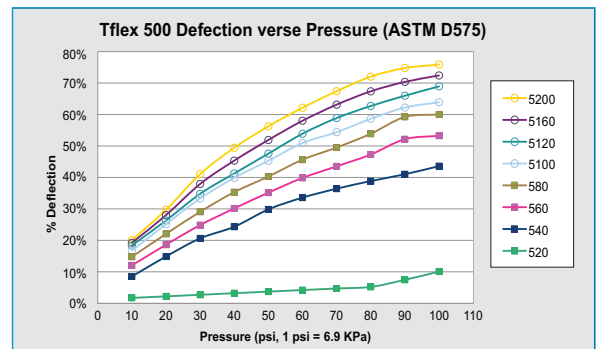
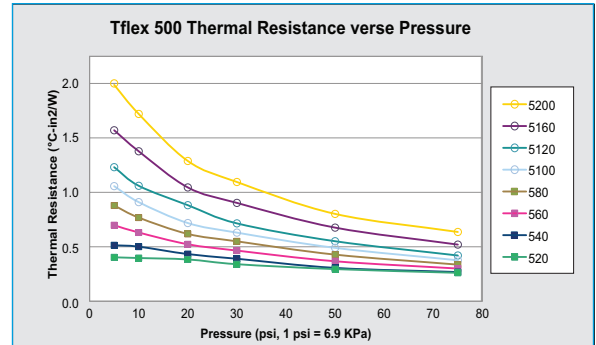
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Tflex™ 500 TYPICAL PROPERTIES Thermal Gap Filler Preliminary

| | Tflex™ 500 Preliminary | TEST METHOD |
|-------------------------------------|----------------------------------|----------------------|
| Construction | Filled silicone elastomer | NA |
| Color | Light Blue | Visual |
| Thermal Conductivity | 2.8 W/mK | ASTM D5470 |
| Hardness (Shore 00) | 40 (at 3 second delay) | ASTM D2240 |
| Density | 3.0 g/cc | Helium Pycnometer |
| Standard Thickness Range | 0.020" - 0.200" (0.5 - 5.1mm) | |
| Thickness Tolerance | ±10% | |
| UL Flammability Rating | 94 V0 | UL |
| Temperature Range | -50°C to 200°C | NA |
| Volume Resistivity | 10 ¹³ ohm-cm | ASTM D257 |
| Outgassing TML | 0.29% | ASTM E595 |
| Outgassing CVMC | 0.04% | ASTM E595 |
| Coefficient Thermal Expansion (CTE) | 37.4 ppm/°C 70°C-130°C | IPC-TM-650 2.4.24 |



STANDARD THICKNESSES

0.020 to 0.200-inch (0.25 to 5.0mm).

0.020 to 0.030-inch (0.5 to 0.76mm) thick material come standard with fiberglass reinforcement.

0.020 through 0.200 thick material available in 0.010-inch (0.25mm) increments.

OPTIONS

Proprietary DC1 option available to eliminate tack from top side to aid in handling.

MATERIAL NAME AND THICKNESS

Tflex™ indicates Laird Technologies' brand thermally conductive elastomeric gap filler product. 5xxx indicates '500 series' 2.8 W/mK material, and xxx indicates thickness in -mil (0.001-inches); -DC1 designates proprietary tack eliminating option

Examples:

Tflex™ 5120 = 0.120-inch thick material

Tflex™ 5120-DC1 = 0.0120-inch thick material with proprietary DC1 option



THR-DS-Tflex-500 0110

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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