



Mid-Performance Gap Filler with 3 W/mK

Tflex™ HR600 is a cost-effective and compliant gap filler thermal interface material with excellent thermal performance and great handling for mass-production applications.

The low modulus interface pad conforms to component topography, resulting in little stress on the components, mating chassis or parts. The softness relieves mechanical stress from high stack-up tolerance and absorbs shock, resulting in improved device reliability. Tflex HR600's recovery properties for applications requiring material rework result in continued mechanical integrity even after device rework and re-assembly.

Tflex HR600 is naturally tacky on both sides and requires no additional adhesive coating to inhibit thermal performance. The tack is designed to hold the pad in place during assembly and component transport.

Tflex HR600 is electrically insulating, stable from -45°C thru 200°C, and meets UL 94V0 flame rating.

Features and Benefits

- Thermal conductivity 3 W/mK
- Soft and compliant
- Available in thicknesses from 0.010" thru 0.200" (0.25mm thru 5.0mm)
- Naturally tacky for adhesion during assembly and transport

Applications

- Cooling components to chassis, frame, or other mating components
- Memory modules
- Home and small office network equipment
- Mass storage devices
- Automotive electronics
- Telecommunication hardware
- Radios
- LED solid state lighting
- Power electronics
- LCD and PDP flat panel TV
- Set top boxes
- Audio and video components
- IT infrastructure
- GPS navigation and other portable devices

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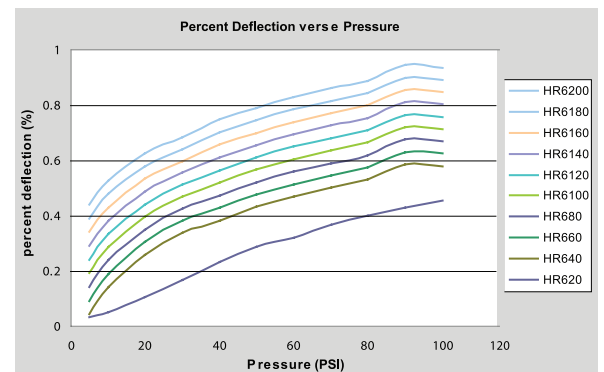
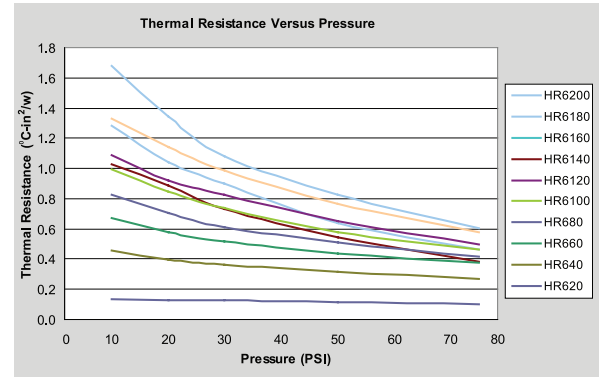
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Tflex™ HR600 Typical Properties

	Tflex™ HR600	Test Method
Construction	Filled silicone elastomer	NA
Color	Dark Grey	Visual
Thermal conductivity	3 W/mK	ASTM D5470
Hardness (Shore 00)	40 (at 3 second delay)	ASTM D2240
Density	2.5 g/cc	Helium Pycnometer
Thickness range	0.010" - .200" (0.25 - 5.0mm)	
Thickness tolerance	±10%	
UL flammability rating	94 V0	UL
Temperature range	-45°C to 200°C	NA
Volume resistivity	10 ¹³ ohm-cm	ASTM D257
Outgassing TML	0.19%	ASTM E595
Outgassing CVM	0.07%	ASTM E595
Coefficient Thermal Expansion (CTE)	217 ppm/C	IPC-TM-650 2.4.24



Standard Thicknesses

0.010-inch to 0.200-inch (0.25 to 5.0 mm)

0.010-inch and 0.015-inch thick materials come standard with fiberglass reinforcement designated by the suffix "FG"

Options

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

Material Name and Thickness

Tflex™ indicates elastomeric gap filler product line

HR6xxx indicates high recovery '6 series' 3 W/mK material

FG designates Fiberglass (available in 0.010 and 0.015-inch thickness only)

DC1 designates proprietary option eliminating tack from one side

Examples

Tflex™ HR6120 = 0.120-inch thick material

Tflex™ HR610FG = 0.010-inch thick material with fiberglass reinforcement

Tflex™ HR6120-DC1 = 0.120-inch thick material with proprietary DC1 option



THR-DS-Tflex-HR600 1109

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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;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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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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