

for a **Connected** World

Tflex™ HR200 Series

Thermal Gap Filler

PRFIIMINARY



MID-PERFORMANCE GAP FILLER WITH 1.6 W/MK

Tflex™ HR200 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™ HR200 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™ HR200 is stable from -50°C thru 160°C.

FEATURES AND BENEFITS

- Thermal Conductivity 1.6 W/mK
- Soft and Compliant
- Available in thicknesses from 0.020" thru 0.320" (0.5mm thru 8.0mm)
- Naturally tacky for adhesion during assembly and transport
- Available in 18" x 18" and 9" x 9" standard sheet sizes

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

global solutions: local support ™

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Innovative **Technology** for a **Connected** World

Tflex™ HR200 Series

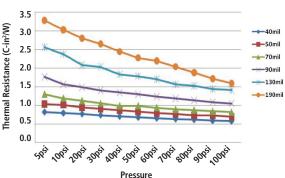
Thermal Gap Filler

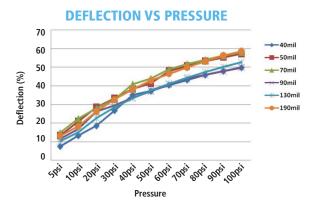
PRELIMINARY

Tflex™ HR200 TYPICAL PROPERTIES

Tflex HR200™ PRELIMINARY	TEST METHOD
Naturally tacky Ceramic filled silicone elastomer	NA
Grey	Visual
1.6 W/mK	Hot Disk™
50	ASTM D2240
2.4	Helium Pycnometer
25 g/in 35 g/in	Top Liner Bottom Liner
0.020"- 0.320" (0.5 - 8.0mm)	
TBD	File E180840
-50°C to 160°C	See reliability report
0.35%	ASTM E595
0.06%	ASTM E595
296.54 ppm/°C	IPC-TM-650 2.4.24
	PRELIMINARY Naturally tacky Ceramic filled silicone elastomer Grey 1.6 W/mK 50 2.4 25 g/in 35 g/in 0.020"- 0.320" (0.5 - 8.0mm) TBD -50°C to 160°C 0.35% 0.06%

THERMAL RESISTANCE VS PRESSURE





STANDARD THICKNESSES

Standard thickness is 0.020-inch (0.5 mm) through 0.320-inch (8.0 mm) and available in 0.010-inch increments.

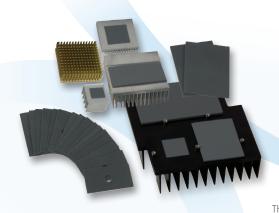
OPTIONS

Fiberglass is standard in 0.020-inch and 0.030-inch thicknesses to aid in handling and is designated by the suffix "FG". Material is standard with both sides tacky; the "DC1" suffix indicates only one side is tacky.

MATERIAL NAME AND THICKNESS

Tflex™ indicates Laird Technologies' elastomeric thermal gap filler product line. HR2XXX indicates Tflex HR200 product line with thickness in mils (0.001-inches); DC1 indicates only one side tacky; FG indicates fiberglass reinforcement.

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.



THR-DS-Tflex-HR200 1211

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