

Tflex™ HR6.5 Series

Thermal Gap Filler

Data Sheet



PRODUCT DESCRIPTION

Laird's Tflex™ HR6.5 gap filler is a thermal interface material with a thermal conductivity of >6 W/m-K and high recovery properties. This product is designed to withstand cyclic gap changes due to vibration, shock, or warpage, maintaining consistent thermal performance over the life of the part. It also exhibits rebound properties after pressure is removed.

Tflex™ HR6.5 material will provide minimal stress on components and is easily assembled. In many cases it can be reused after rework due to its good rebound capability.

Tflex™ HR6.5 gap filler may be available in other thickness options. Please contact your local Laird sales or field engineering contact for samples or questions.

FEATURES AND BENEFITS

- >6.0 W/mK thermal conductivity
- High resiliency and good recovery
- Low peak and residual force
- Low outgassing and oil bleeding
- Good elongation

SPECIFICATIONS

TYPICAL PROPERTIES	VALUE	TEST METHOD
Construction & Composition	Ceramic filled silicone sheet	N/A
Color	Grey	Visual
Thickness Range	1mm - 5mm	N/A
Thermal Conductivity (W/mK)	6.2	Hot Disk
Density (g/cc)	3.2	Helium Pycnometer
Hardness Shore 00 (3 sec)	50	ASTM D2240
Outgassing TML (weight %)	0.31	ASTM E595
Outgassing CVCM (weight %)	0.06	ASTM E595
Temperature Range	-50°C to 150°C	Laird Test Method
Rth at 1mm (40mil), 10 psi	0.24°C-in ² /W	ASTM D5470
Dielectric Constant at 1 MHz	TBD	ASTM D150
Dielectric Breakdown Voltage(Kv/mm)	>7KV	ASTM 149
UL Flammability Rating	V-0	UL 94
Volume Resistivity	>1.1X10 ¹⁴ Ω.cm	ASTM D257

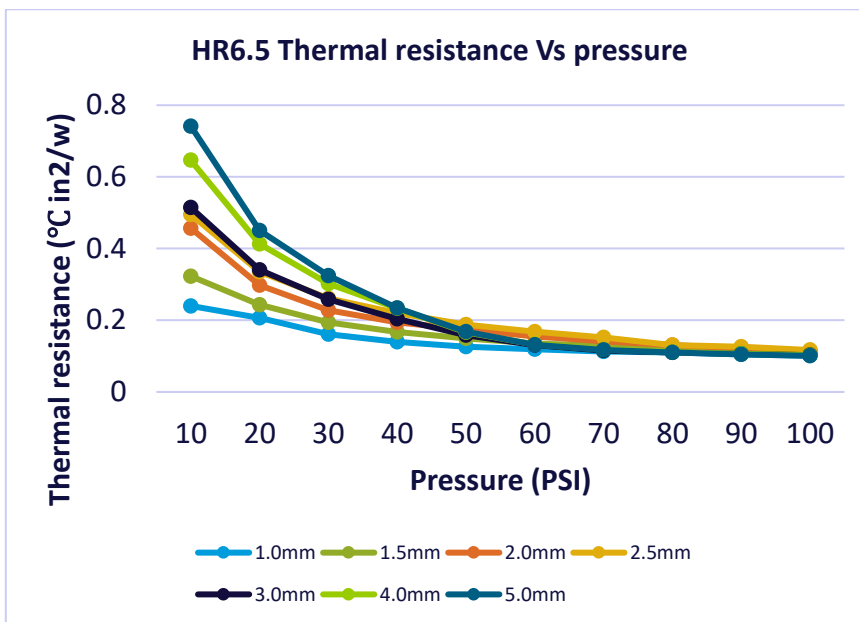
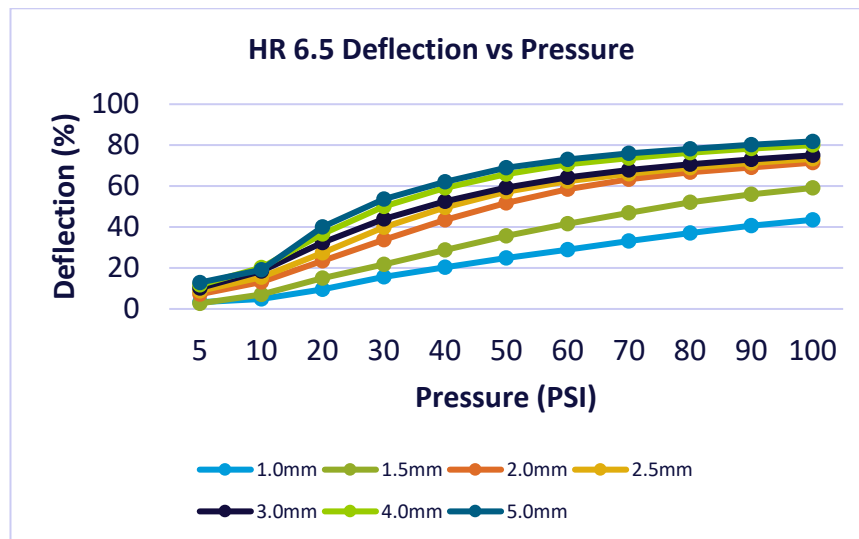
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AVAILABILITY

STANDARD THICKNESSES

- 1 mm to 5 mm thick material available in 0.25mm (0.010") increments
- Available in standard sheet sizes of 18" x 18" and 9" x 9" or custom die cut parts.

PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. HR6.5 indicates high recovery >6 W/mk material. Thickness of sheet in mm is listed after material name.

EXAMPLES:

- Tflex™ HR6.5,1.00 =1.00mm thick for Tflex™ HR6.5 material
- Tflex™ HR6.5,2.00 =2.00mm thick for Tflex™ HR6.5 material

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