



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



Tflex™ 300TG Series

Thermal Gap Filler

UNIQUE SILICONE GEL OFFERS COMPLIANCY, THERMAL RESISTANCE

The high rate of compliancy of Tflex™ 300TG allows the material to “totally blanket” the component, enhancing thermal transfer. The material has a very low compression set enabling the pad to be reused many times. Tflex™ 300TG, in achieving its stellar compliancy, does not sacrifice thermal performance. With a thermal conductivity of 1.2 W/mK, low thermal resistance can be achieved at low pressures.

A Tgard™ silicone liner has been added to the Tflex™ 300TG to offer a guaranteed dielectric barrier. The Tgard™ is cut-through resistant and provides easier part handling in mass production.

FEATURES AND BENEFITS

- Extreme compliancy allows material to “totally blanket” component(s)
- Thermal conductivity of 1.2 W/mK
- Provides a dielectric barrier
- Low compression set enables the pad to be reused many times

APPLICATIONS

- Notebook and desktop computers
- Telecommunication hardware
- Flat panel displays
- Memory modules
- Power conversion equipment
- Set top box
- Lighting ballast
- Automotive electronics
- LED lighting
- Handheld electronics
- Optical disk drives
- Vibration dampening

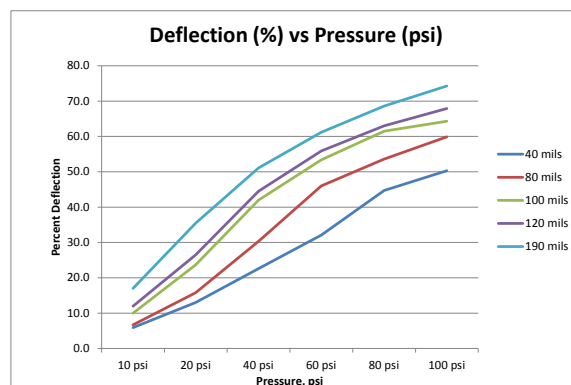
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Tflex™ 300TG TYPICAL PROPERTIES

	Tflex™ 300TG	TEST METHOD
Construction	Filled silicone elastomer on carrier line	NA
Color	Light green	Visual
Thickness Range	0.020 - .200 in (0.5 - 5.0 mm), 0.250 in (6.4 mm)	
Thickness Tolerance	± 10%	
Surface Adhesion	1 side	
Specific Gravity	1.79	ASTM D792
Hardness (Shore 00)	27	ASTM D2240
Thermal Conductivity	1.2 W/mK	ASTM D5470
Thermal Resistance, 10 psi	1.59 °C in²/W	ASTM D5470 modified
Coefficient of Thermal Expansion (CTE)	600 ppm/C	IPC-TM-650 2.4.24
Operating Temperature Range	-40°C to 160°C	
Breakdown Voltage	>10,000 VAC	ASTM D149
Flammability Rating	94V0	UL
Outgassing, TML	0.56%	ASTM E595
Outgassing, CVCM	0.10%	ASTM E595



STANDARD THICKNESSES

0.020 to 0.200 in (0.5 to 5.0 mm)*
0.020 to 0.200 in thick material available in 0.010 inch (0.25 mm) increments
*0.250 in (6.4 mm) thickness is available

MATERIAL NAME AND THICKNESS

Tflex™ indicates elastomeric gap filler product line
3xxx indicates high recovery '3 series' 1.2 W/mK material
TG indicates Tgard™ liner

EXAMPLES

Tflex™ 3120TG = 0.120 in thick material with Tgard™ liner

Mouser Electronics

Authorized Distributor

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Laird Performance Materials:

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