



PRODUCT DESCRIPTION

Tputty[™] 502 is best suited for applications where large tolerance differences create the need for compression of the interface material beyond 50% of its original thickness.

Tputty[™] 502 will ensure low pressures on the components being cooled. In conjunction with outstanding compression characteristics, Tputty[™] 502 has a high thermal conductivity, resulting in very low thermal resistance. Tputty[™] 502 is naturally tacky and requires no additional adhesive coating that can inhibit thermal performance.

FEATURES AND BENEFITS

- 3 W/mK thermal conductivity
- Soft and ultra high compressibility for low stress applications
- Fiberglass layer for reinforcement and better handling capabilities
- Low Dielectric Constant
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

SPECIFICATIONS

TYPICAL PROPERTIES	VALUE	TEST METHOD
Construction & Composition	Reinforced boron nitride filled silicone sheet	N/A
Color	White	Visual
Thickness Range	0.50mm (0.020") 5.0mm (0.20")	N/A
Thickness Tolerance	+/- 10%	N/A
Thermal Conductivity (W/mK)	3.0	ASTM D5470
Density (g/cc)	1.37	Helium Pycnometer
Hardness (Shore 00)	14	ASTM D2240
Outgassing TML (weight %)	0.11	ASTM E595
Outgassing CVCN (weight %)	0.06	ASTM E595
Temperature Range	-45°C to 200°C	Laird Test Method
Rth@ 40 mils, 10 psi	0.49°C-in ² /W	ASTM D5470 (Modified)
Dielectric Constant @ 10 GHz	3.6	ASTM D150
UL Flammability Rating	V-0	UL 94
Volume Resistivity	5 x 10 ¹³ ohm-cm	ASTM D257



Tputty™ 502 Series

Thermal Gap Filler

AVAILABILITY

STANDARD SHEET SIZES

- 0.5mm (0.020") to 5.0mm (0.200") 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

REINFORCEMENT

- Tputty 502 sheets are reinforced on both sides with fiberglass

BULK

- Tputty™ 502 is available in bulk form in the following sizes: 100 cc Jar 500 cc Jar 1000 cc Jar

PART NUMBER SYSTEM

- Tputty™ indicates Laird elastomeric thermal gap filler product line. Tputty 502FG2,xxx indicates Tputty 502 product line with Fiberglass on both sides, thickness in mils (0.001")
- EXAMPLES: Tflex™ Tputty 502FG2,040= 0.040" thick Tputty™ 502 material

Tputty 502 DS 12-6-17

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