



### PRODUCT DESCRIPTION

Tputty<sup>™</sup> 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<sup>™</sup> 502 will ensure low pressures on the components being cooled. In conjunction with outstanding compression characteristics, Tputty<sup>™</sup> 502 has a high thermal conductivity, resulting in very low thermal resistance. Tputty<sup>™</sup> 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
<b>Construction &amp; Composition</b>	Reinforced boron nitride filled silicone sheet	N/A
<b>Color</b>	White	Visual
<b>Thickness Range</b>	0.50mm (0.020") 5.0mm (0.20")	N/A
<b>Thickness Tolerance</b>	+/- 10%	N/A
<b>Thermal Conductivity (W/mK)</b>	3.0	ASTM D5470
<b>Density (g/cc)</b>	1.37	Helium Pycnometer
<b>Hardness (Shore 00)</b>	14	ASTM D2240
<b>Outgassing TML (weight %)</b>	0.11	ASTM E595
<b>Outgassing CVCN (weight %)</b>	0.06	ASTM E595
<b>Temperature Range</b>	-45°C to 200°C	Laird Test Method
<b>Rth@ 40 mils, 10 psi</b>	0.49°C-in <sup>2</sup> /W	ASTM D5470 (Modified)
<b>Dielectric Constant @ 10 GHz</b>	3.6	ASTM D150
<b>UL Flammability Rating</b>	V-0	UL 94
<b>Volume Resistivity</b>	5 x 10 <sup>13</sup> 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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