

PRODUCT DESCRIPTION



Laird Tputty™ 508 is a single part dispensable material designed with automation and vertical stability in mind. Laird has leveraged its knowledge of thermally conductive fillers and resin systems to develop a single part dispensable that demonstrates reliability in a variety of application orientations. In addition to providing application flexibility and variable gap adaptation, Tputty™ 508 will exert minimum stress on your component while maintaining interface contact to maximize thermal transfer.

Tputty™ 508MF is a version of the Tputty 508 material that has been developed for applications that require a higher flow rate.

FEATURES AND BENEFITS

- RoHS Compliant
- Complete dispensing solution options available
- 3.7 W/mK
- Demonstrated thermal cycling stability
- Low outgassing per ASTM E595
- Available in cartridges (75cc, 180cc, 360cc, 600cc) and pails (1 gallon and 5 gallon)

| Packaging Size | Fill Volume | Fill Weight |
|----------------|-------------|-------------|
| 1cc syringe | 1cc | 3.2g |
| 75cc (2.5 oz) | 56cc | 179g |
| 180cc (6 oz) | 159cc | 508g |
| 360cc (12 oz) | 326cc | 1043g |
| 600cc (20 oz) | 601cc | 1923g |
| 1 gallon | 4062cc | 13kg |
| 5 gallon | 6250cc | 20kg |

Americas: +1.866.928.8181
Europe: +44.(0).8031.2460.0
Asia: +86.755.2714.1166

TYPICAL PROPERTIES – Tputty™ 508 and Tputty™ 508MF

| PROPERTY | TYPICAL PROPERTIES | | METHOD |
|---|-------------------------------------|-------------------------------------|-----------------------------|
| | Tputty™ 508 | Tputty™ 508MF | |
| Construction | Ceramic filled silicone dispensable | Ceramic filled silicone dispensable | N/A |
| Color | Green | Green | Visual |
| Thermal Conductivity (W/mK) | 3.7 | 3.4 | Hot Disk |
| Flow Rate (75cc taper tip, 0.125" orifice, 90 psi) (g/min) | 50 | 75 | Laird Test Method A16724-00 |
| Density (g/cc) | 3.2 | 3.2 | Helium Pycnometer |
| Flammability | V-0 | V-0 | UL 94 |
| Temperature Range (°C) | -40 to 150 | -40 to 150 | Laird Test Method |
| Outgassing TML (weight %) | 0.04 | 0.04 | ASTM E595 |
| Outgassing CVCM (weight %) | 0.01 | 0.02 | ASTM E595 |
| Dielectric Constant at 1MHz | 8.6 | 8.6 | ASTM D150 |
| Minimum Bond Line Thickness | 0.09 mm (0.0036") | 0.09 mm (0.0036") | Laird Test Method A16112-00 |
| Volume Resistivity (ohm-cm) | 10 ¹³ | 10 ¹³ | ASTM D257 |

Material selection is dependent upon gap size, temperature profiles, and other application specific parameters. Please consult with your Laird representative to determine which version of Tputty 508 is suitable for your application.

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