Tputty™ 508

Dispensable Gap Filler

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

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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.