

SILICONE PUTTY TGF-ZP-SI

plastic

TGF-ZP-SI is an electrically insulating thermally conductive silicone gap filler. It is ideal for use in applications where thermal transfer over large gaps caused e.g. by big tolerances or different stack up heights must be achieved. Due to the specific formulation and filling with ceramic particles the silicone elastomer has an extremely high thermal conductivity. Through its extreme softness and plasticity the material perfectly mates to irregular surfaces thus filling gaps at almost zero pressure. By its use the total thermal resistance is minimised. The natural tackiness of the material allows for an easy and reliable pre-assembly.



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PROPERTIES

- Plastic putty
- Extremely soft and compliant
- Thermal conductivity: 11 W/mK
- Operates at almost zero pressure
- For minimal gaps
- Extraordinary chemical resistance and longterm stability
- Easy mounting through self tackiness

AVAILABILITY

- Sheet 300 x 200 mm
- Tacky on both sides (TGF-ZPXXX-SI)
- Die cut parts
- Kiss cut parts on sheet

APPLICATION EXAMPLES

Thermal link of:

- SMD packages
- Through-hole vias
- RDRAMs memory modules
- Capacitors

For use in Automotive applications / Laptops / Medicine engineering / Embedded boards

Property	Unit	TGF-ZP1500-SI	TGF-ZP2000-SI
Material		Ceramic filled silicone	Ceramic filled silicone
Colour		Light grey	Light grey
Reinforcement		None	None
Thickness	mm	1.5	2.0
Density	g/cm ³	3.3	3.3
UL Flammability	UL 94	V0	V0
RoHS Conformity	2011 / 65 / EU	Yes	Yes
Thermal			
Resistance ¹ @ 1.5 mm	°C-inch ² /W	---	0.24
Resistance ¹ @ 0.8 mm	°C-inch ² /W	0.14	0.14
Resistance ¹ @ 0.5 mm	°C-inch ² /W	0.10	0.10
Resistance ¹ @ 0.2 mm	°C-inch ² /W	0.06	0.06
Thermal Conductivity	W/mK	11	11
Operating Temperature Range	°C	- 50 to + 180	-50 to + 180
Electrical			
Dielectric Strength	kV / mm	11	11
Dielectric Constant	@ 1 MHz	7.5	7.5
Volume Resistivity	Ohm-cm	7.0 x 10 ⁷	7.0 x 10 ⁷

Test Methods: ¹ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.

Thicknesses: 1.5 mm / 2.0 mm

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