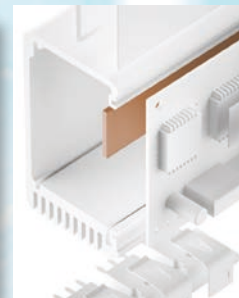


# SILICONE PUTTY TGF-XP-SI

plastic

TGF-XP-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 outstandingly 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.



Release 04 / 2014

## PROPERTIES

- Plastic putty
- Soft and compliant
- Thermal conductivity: 6 W/mK
- Operates at almost zero pressure
- For minimal gaps
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use
- Easy mounting through self tackiness

## AVAILABILITY

- Sheet 300 x 200 mm
- Tacky on both sides (TGF-XPXXX-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-XP1500-SI	TGF-XP2000-SI
<b>Material</b>		Ceramic filled silicone	Ceramic filled Silicone
Colour		Grey brown	Grey brown
Reinforcement		None	None
Thickness	mm	1.5	2.0
Density	g/cm <sup>3</sup>	3.1	3.1
UL Flammability	UL 94	V0	V0
RoHS Conformity	2002/95/EC	Yes	Yes
<b>Thermal</b>			
Resistance <sup>1</sup> @ 1.5 mm	°C-inch <sup>2</sup> /W	---	0.34
Resistance <sup>1</sup> @ 0.8 mm	°C-inch <sup>2</sup> /W	0.20	0.20
Resistance <sup>1</sup> @ 0.5 mm	°C-inch <sup>2</sup> /W	0.15	0.15
Resistance <sup>1</sup> @ 0.2 mm	°C-inch <sup>2</sup> /W	0.08	0.08
Thermal Conductivity	W/mK	6	6
Operating Temperature Range	°C	- 50 to + 180	- 50 to 180
<b>Electrical</b>			
Dielectric Strength	kV / mm	13	13
Dielectric Constant	@ 1 MHz	6.4	6.4
Volume Resistivity	Ohm-cm	1.0 x 10 <sup>10</sup>	1.0 x 10 <sup>10</sup>

Test Methods: <sup>1</sup>ASTM 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

All technical data and information are without warranty and believed to be reliable and accurate. Since the products are not provided to conform with mutually agreed specifications and their use and processing are unknown we cannot guarantee results, freedom from patent infringement, or their suitability for any application. Product testing by the applicant is recommended. We reserve the right of changes.