

SILICONE GAP FILLER PAD TGF-MUS-SI

extremely soft, flexible

TGF-MUS-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 a very high thermal conductivity. Through its extreme softness and flexibility the material perfectly mates to irregular surfaces thus filling gaps at very low 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 09 / 2026

PROPERTIES

- ☐ Extremely soft and compliant
- ☐ Thermal conductivity: 3.0 W/mK
- ☐ Operates at very low pressure
- ☐ Extraordinary chemical resistance and longterm stability
- ☐ Shock absorbing
- ☐ Easy mounting through self tackiness
- ☐ One or two-side self-tacky

AVAILABILITY

- ☐ Sheet 480 x 460 mm (1.0 mm)
- ☐ Sheet 460 x 460 mm (2.0 mm)
- ☐ Sheet 450 x 460 mm (≥ 3.0 mm)
- ☐ Tacky on both sides (TGF-MUSXXX-SI)
- ☐ Tacky on one side (TGF-MUSXXX-SI-A1)
- ☐ Die cut parts
- ☐ Kiss cut parts on sheet

APPLICATION EXAMPLES

Thermal link of:

- ☐ SMD packages
 - ☐ Through-hole vias
 - ☐ Capacitors
 - ☐ Electronic parts to heat pipes
- For use in Automotive applications / Laptops / Medicine engineering / Industrial PCs

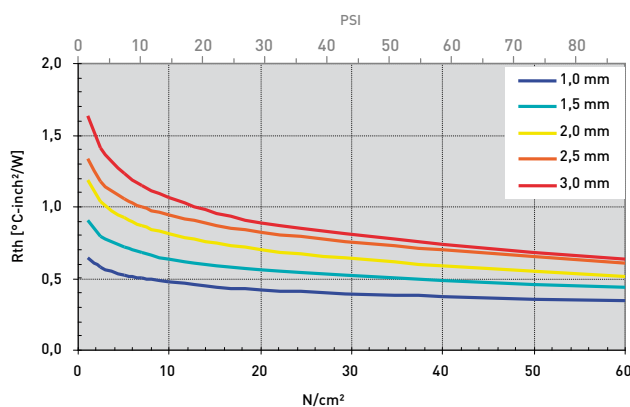
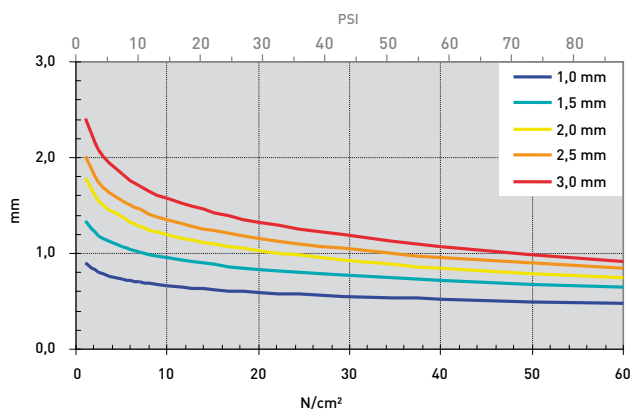
Technical Data Sheet

PROPERTY	UNIT	TGF-MUS1000-SI	TGF-MUS2000-SI	TGF-MUS3000-SI
MATERIAL		Ceramic filled silicone	Ceramic filled silicone	Ceramic filled silicone
Colour		Light blue	Light blue	Light blue
Thickness	mm	1.0 ± 0.10	2.0 ± 0.20	3.0 ± 0.30
Hardness	Shore 00	20	20	20
UL Flammability	UL 94	V0	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes	Yes
THERMAL				
Resistance ¹ @ 60 PSI @ Thickness	°C-inch ² /W (mm)	0.37 (0.52)	0.58 (0.85)	0.74 (1.06)
Resistance ¹ @ 30 PSI @ Thickness	°C-inch ² /W (mm)	0.42 (0.59)	0.70 (1.02)	0.89 (1.32)
Resistance ¹ @ 10 PSI @ Thickness	°C-inch ² /W (mm)	0.49 (0.70)	0.89 (1.29)	1.20 (1.70)
Thermal Conductivity ¹	W/mK	3.0	3.0	3.0
Operating Temperature Range	°C	- 60 to + 180	- 60 to + 180	- 60 to + 180
ELECTRICAL				
Dielectric Strength	kV / mm	10	10	10
Volume Resistivity	Ohm - cm	1.0×10^{11}	1.0×10^{11}	1.0×10^{11}
Dielectric Constant	@ 1 kHz	5.2	5.2	5.2

Measurement technique according to: 'ASTM D 5470. Typical, non-binding values. Not intended for specification purposes. Subject to technical changes. Please contact us for further information.

Thicknesses: 1.0 mm / 1.5 mm / 2.0 mm / 2.5 mm / 3.0 mm / 4.0 mm / 5.0 mm

mm vs. N/cm² (PSI) / Rth vs. N/cm² (PSI)



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