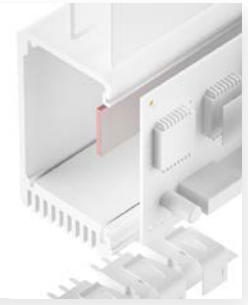


SILICONE GAP FILLER PAD TGF-EXS-SI-GF

ultra soft, flexible

TGF-EXS-SI-GF 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 high thermal conductivity. Through its ultra softness and flexibility the material perfectly mates to irregular surfaces thus filling gaps at minimum pressure. By its use the total thermal resistance is minimised. The natural tackiness of the material allows for an easy and reliable pre-assembly. The conductive fiberglass reinforced silicone laminate on one side allows for a high mechanic stability and strength.



Release 09 / 2026

Technical Data Sheet

PROPERTIES

- ☐ Ultra soft and compliant
- ☐ Thermal conductivity: 1.4 W/mK
- ☐ Operates at minimum pressure
- ☐ Extraordinary chemical resistance and longterm stability
- ☐ Shock absorbing
- ☐ Easy mounting through self tackiness
- ☐ One-side self-tacky

AVAILABILITY

- ☐ Sheet 300 x 400 mm
- ☐ Tacky on one side by fibreglass reinforced laminate (TGF-EXSXXX-SI-GF)
- ☐ Die cut parts
- ☐ Kiss cut parts on sheet

APPLICATION EXAMPLES

Thermal link of:

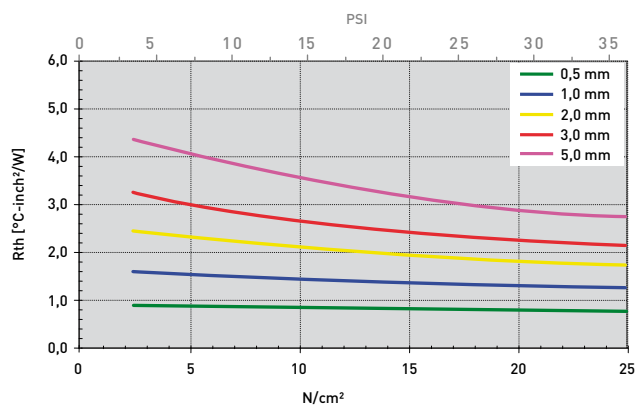
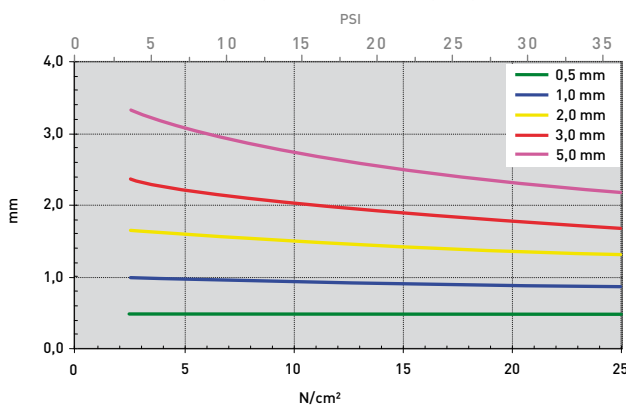
- ☐ SMD packages
 - ☐ Through-hole vias
 - ☐ RDRAMs Smemory modules
 - ☐ Flip Chips, DSPs, BGAs, PPGAs
- For use in Automotive applications / Laptops / Medicine engineering / Embedded boards

PROPERTY	UNIT	TGF-EXS0500-SI-GF	TGF-EXS1000-SI-GF	TGF-EXS2000-SI-GF	TGF-EXS3000-SI-GF	TGF-EXS5000-SI-GF
MATERIAL						
Colour		Ceramic filled silicone Reddish brown / Grey	Ceramic filled silicone Reddish brown / Grey	Ceramic filled silicone Reddish brown / Grey	Ceramic filled silicone Reddish brown / Grey	Ceramic filled silicone Reddish brown / Grey
Reinforcement		Fibreglass laminate	Fibreglass laminate	Fibreglass laminate	Fibreglass laminate	Fibreglass laminate
Thickness	mm	0.5 ±0.10	1.0 ±0.15	2.0 ±0.25	3.0 ±0.25	5.0 ±0.30
Hardness	Shore 00	25	25	25	25	25
UL Flammability	UL 94	V0	V0	V0	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes	Yes	Yes	Yes
THERMAL						
Resistance ¹ @ 35 PSI @ Thickness	°C-inch ² /W (mm)	0.76 [0.46]	1.26 [0.86]	1.73 [1.30]	2.14 [1.68]	2.73 [2.17]
Resistance ¹ @ 15 PSI @ Thickness	°C-inch ² /W (mm)	0.85 [0.47]	1.44 [0.92]	2.07 [1.50]	2.63 [2.03]	3.58 [2.72]
Resistance ¹ @ 7 PSI @ Thickness	°C-inch ² /W (mm)	0.89 [0.48]	1.54 [0.95]	2.31 [1.58]	3.00 [2.20]	4.08 [3.06]
Thermal Conductivity ¹	W/mK	1.4	1.4	1.4	1.4	1.4
Operating Temperature Range	°C	- 40 to + 180	- 40 to + 180	- 40 to + 180	- 40 to + 180	- 40 to + 180
ELECTRICALLY						
Dielectric Strength	kV / mm	20	20	20	20	20

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: 0.5 mm / 1.0 mm / 1.5 mm / 2.0 mm / 3.0 mm / 4.0 mm / 5.0 mm

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



All technical data and information are without warranty and believed to be reliable and accurate corresponding to the latest state of the art. 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.