

ultra soft, with fibreglass reinforcement

TGF-DXS-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 good 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 fibreglass reinforced silicone laminate on one side provides for a high mechanic stability and strength.



- Ultra soft and compliable
- ☐ Thermal conductivity: 1.3 W/mK Operates at minimum pressure
- Extraordinary chemical resistance and longterm stability
- ☐ Shock absorbing

PROPERTIES

- Easy mounting through self tackiness
- One side self-tacky

AVAILABILITY

- ☐ Sheet 200 x 400 mm
- Tacky on one side by fibreglass reinforced laminate (TGF-DXSXXXX-SI-GF)
- Die cut parts
- Kiss cut parts on sheet

APPLICATION EXAMPLES

Thermal link of:

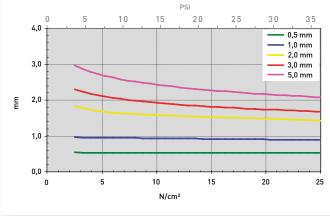
- SMD packages
- Through-hole vias
- Capacitors
- Electronic parts to heat pipes For use in Automotive applications / Laptops / Medicine engineering / Industrial PCs

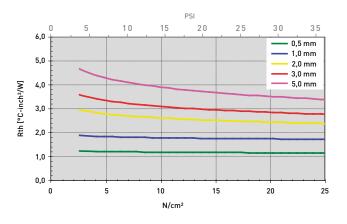
PROPERTY	UNIT	TGF-DXS1000-SI-GF	TGF-DXS2000-SI-GF	TGF-DXS3000-SI-GF	TGF-DXS5000-SI-GF
MATERIAL		Ceramic filled silicone	Ceramic filled silicone	Ceramic filled silicone	Ceramic filled silicone
Colour		White / Pink	White / Pink	White / Pink	White / Pink
Reinforcement		Fibreglass laminate	Fibreglass laminate	Fibreglass laminate	Fibreglass laminate
Thickness	mm	1.0 +0.10	2.0 +0.20	3.0 +0.30	5.0 +0.50
Hardness	Shore 00	25	25	25	25
UL Flammability	UL 94	V0	V0	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes	Yes	Yes
THERMAL					
Resistance ¹ @ 35 PSI @ Thickness	°C-inch²/W (mm)	1.77 (0.94)	2.43 (1.40)	2.80 (1.65)	3.40 (2.10)
Resistance¹ @ 15 PSI @ Thickness	°C-inch²/W (mm)	1.85 (0.95)	2.70 (1.60)	3.10 (1.95)	3.95 (2.55)
Resistance¹ @ 7 PSI @ Thickness	°C-inch²/W (mm)	1.86 (0.97)	2.80 (1.70)	3.30 (2.20)	4.40 (2.70)
Thermal Conductivity	W/mK	1.3	1.3	1.3	1.3
Operating Temperature Range	°C	- 40 to + 180			
ELECTRICAL					
Dielectric Strength	kV / mm	6	6	6	6
Volume Resistivity	0hm - cm	6.2 x 10 ¹⁵			
Dielectric Constant	@ 1 MHz	5.27	5.27	5.27	5.27

Measurement technique according to: 'ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.

Thicknesses: $0.5 \, \text{mm} / 1.0 \, \text{mm} / 2.0 \, \text{mm} / 3.0 \, \text{mm} / 4.0 \, \text{mm} / 5.0 \, \text{mm} / 6.0 \, \text{mm} / 7.0 \, \text{mm} / 9.0 \, \text{mm} / 10.0 \, \text{mm}$

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





Technical Data Sheet

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 results, freedom from patent infingement, or their suitability for any application. Product testing by the applicant is recommended. We reserve the right of changes.