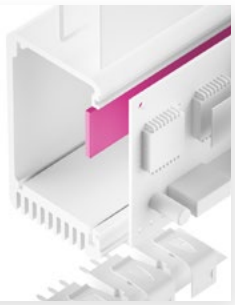
# SILICONE GAP FILLER PAD TGF-GXS-SI-A1

ultra soft, flexible / low density / Low Volatile Siloxans (LV)

TGF-GXS-SI-A1 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 mate-rial 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 material is one-side tacky through a thermally conductive film layer.



Release 04 / 2025



## PROPERTIES

- Ultra soft and compliable
- Low volatile siloxans (LV) ⩽ 70 ppm
- Thermal conductivity: 1.5 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 200 x 400 mm
- Tacky on one side TGF-GXSXXXX-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

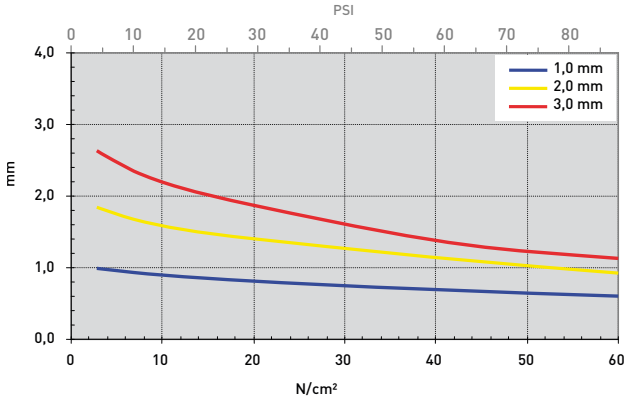
For use in Automotive applications / Laptops / Medicine engineering / Industrial PCs

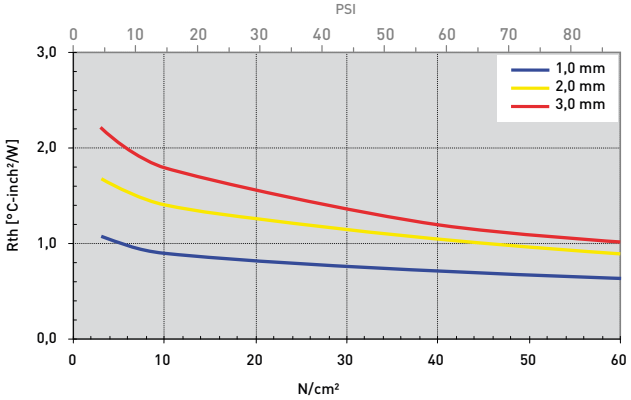
| PROPERTY | UNIT | TGF-GXS1000-SI-A1 | TGF-GXS2000-SI-A1 | TGF-GXS3000-SI-A1 |
|---|---|---|---|---|
| **MATERIAL** | | Ceramic filled silicone | Ceramic filled silicone | Ceramic filled silicone |
| Colour | | Pink | Pink | Pink |
| Thickness | mm | $1.0^{+0.20}_{-0.10}$ | $2.0^{\pm 0.20}$ | $3.0^{\pm 0.30}$ |
| Density | g/cm³ | 1.85 | 1.85 | 1.85 |
| Hardness | Shore 00 | 20 | 20 | 20 |
| UL Flammability (Equivalent) | UL 94 | V0 | V0 | V0 |
| RoHS Conformity | 2015 / 863 / EU | Yes | Yes | Yes |
| **THERMAL** | | | | |
| Resistance[1] @ 60 PSI @ Thickness | °C-inch²/W (mm) | 0.70 (0.70) | 1.04 (1.14) | 1.19 (1.38) |
| Resistance[1] @ 30 PSI @ Thickness | °C-inch²/W (mm) | 0.82 (0.82) | 1.25 (1.40) | 1.56 (1.87) |
| Resistance[1] @ 10 PSI @ Thickness | °C-inch²/W (mm) | 0.96 (0.95) | 1.49 (1.68) | 1.92 (2.35) |
| Thermal Conductivity[1] | W/mK | 1.5 | 1.5 | 1.5 |
| Operating Temperature Range | °C | - 40 to + 150 | - 40 to + 150 | -40 to + 150 |
| **ELECTRIC** | | | | |
| Dielectric Strength | kV / mm | 10 | 10 | 10 |
| Volume Resistivity | Ohm - cm | $1 \times 10^{10}$ | $1 \times 10^{10}$ | $1 \times 10^{10}$ |

Measurement technique according to: [1]ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.

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

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



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