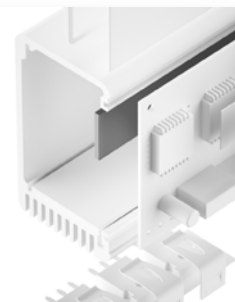


SILICONE GAP FILLER PAD TEL-R-SI

highly thermally conductive elastomer / Low Volatile Siloxanes (LV)

TEL-R-SI is a low dielectric, high performance thermally conductive LV silicone gap filler for an optimised thermal coupling between electronic packages and heat sinks even over large gaps or big tolerances. Through the specific formulation and filling with highly thermally conductive particles an extraordinary high anisotropic thermal conductivity is reached. Its conformal surface structure and extreme softness guarantee a very good compliance to the contact surfaces at very low pressure. Thus the total thermal resistance is minimised. The elastomer shows a low dielectric strength.



Release 09 / 2026

PROPERTIES

- ☐ High surface compliance and extremely soft
- ☐ Low volatile siloxane content (LV)
- ☐ Thermal conductivity: 15 W/mK (anisotropic)
- ☐ Low dielectric
- ☐ Extraordinary chemical resistance and longterm stability
- ☐ Shock absorbing

AVAILABILITY

- ☐ Sheet 150 x 150 mm (Thickness 0.5 – 1.5 mm)
- ☐ Sheet 140 x 140 mm (Thickness 2.0 – 3.0 mm)
- ☐ Double-side self tacky (TEL-RXXX-SI)
- ☐ Die cut parts
- ☐ Kiss cut parts on sheet

APPLICATION EXAMPLES

Thermal link of:

- ☐ MOSFETs und IGBTs
- ☐ Power diodes or AC/DC converters
- ☐ Power modules
- ☐ CPUs

For use in Switch mode power supplies / Motor control units / Automotive engine management systems / UPS units / Solar systems

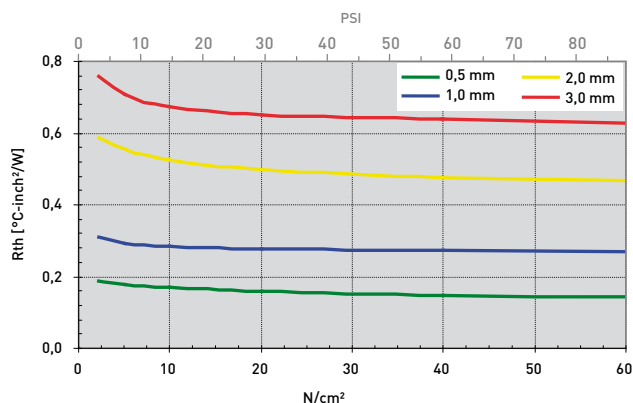
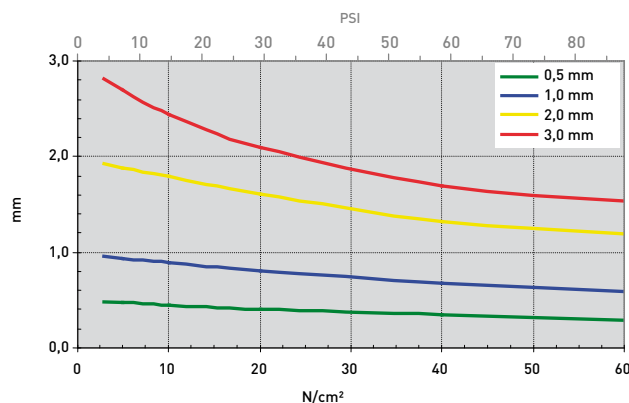
Technical Data Sheet

PROPERTY	UNIT	TEL-R0500-SI	TEL-R1000-SI	TEL-R2000-SI
MATERIAL				
Colour		Black	Black	Black
Thickness	mm	0.5 ±0.05	1.0 ±0.10	2.0 ±0.20
Hardness	Shore 00	55	55	55
Flammability (Equivalent)	UL 94	V0	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes	Yes
THERMAL				
Resistance ¹ @ 90 PSI Thickness	°C-inch ² /W (mm)	0.15 (0.30)	0.27 (0.60)	0.47 (1.20)
Resistance ¹ @ 30 PSI @ Thickness	°C-inch ² /W (mm)	0.16 (0.41)	0.28 (0.81)	0.50 (1.61)
Resistance ¹ @ 10 PSI @ Thickness	°C-inch ² /W (mm)	0.18 (0.47)	0.29 (0.93)	0.54 (1.85)
Thermal Conductivity	W/mK	15	15	15
Operating Temperature Range	°C	- 50 to + 180	- 50 to + 180	- 50 to + 180
ELECTRICAL				
Dielectric Strength	kV/mm	1.0	1.0	1.0
Volume Resistivity	Ohm · cm	≥ 1 x 10 ¹²	≥ 1 x 10 ¹²	≥ 1 x 10 ¹²

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 / 1.5 mm / 1.0 mm / 2.0 mm / 3.0 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.