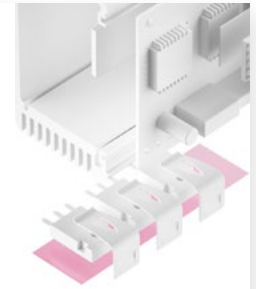


# SILICONE FOIL TFO-Q-SI

fibreglass reinforced, highly dielectric



TFO-Q-SI is an electrically insulating thermally conductive silicone foil for an optimised thermal coupling between electronic packages and heat sinks. Through the specific formulation and filling with thermally conductive ceramic particles a very high thermal conductivity is reached. Under pressure the total thermal resistance is minimised. The material is characterised by its very high dielectric properties. The fibreglass reinforcement provides for an outstanding mechanic stability and cutthrough resistance as well as easy handling. For an easy and reliable preassembly the interface material is available with low tack pressure sensitive adhesive on one side.



Release 04 / 2026

### PROPERTIES

- Thermal conductivity: 6.0 W/mK
- High thermal contact
- Outstanding mechanic stability through fibreglass reinforcement
- Very high dielectric strength
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use

### AVAILABILITY

- Sheet 420 x 500 mm
- Non tacky (TFO-QXXX-SI)
- Tacky on one side (TFO-QXXX-SI-A1H)
- Die cut parts
- Kiss cut parts on sheet

### APPLICATION EXAMPLES

Thermal link of:

- MOSFETs or IGBTs
- Power diodes or AC/DC converters
- Power modules

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

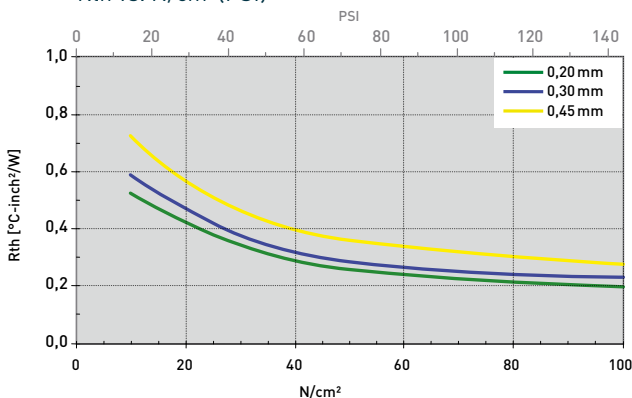
Technical Data Sheet

PROPERTY	UNIT	TFO-Q200-SI	TFO-Q300-SI	TFO-Q450-SI
<b>MATERIAL</b>				
MATERIAL		Ceramic filled silicone	Ceramic filled silicone	Ceramic filled silicone
Colour		Pink	Pink	Pink
Reinforcement		Fibreglass	Fibreglass	Fibreglass
Thickness	mm	0.20 ±0,05	0.30 ±0,05	0.45 ±0,05
Tensile Strength <sup>1</sup>	kpsi	2.4	1.7	1.3
UL Flammability	UL 94	V0	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes	Yes
<b>THERMAL</b>				
Resistance <sup>2</sup> @ 150 PSI	°C-inch <sup>2</sup> /W	0.20	0.23	0.28
Resistance <sup>2</sup> @ 30 PSI	°C-inch <sup>2</sup> /W	0.43	0.47	0.57
Thermal Conductivity	W/mK	6.0	6.0	6.0
Operating Temperature Range	°C	- 40 to + 180	- 40 to + 180	- 40 to + 180
<b>ELECTRICAL</b>				
Breakdown Voltage <sup>3</sup>	kV AC	5.0	7.0	10.0
Volume Resistivity	Ohm - cm	4.8 x 10 <sup>14</sup>	6.4 x 10 <sup>14</sup>	1.1 x 10 <sup>15</sup>
Dielectric Constant	@ 1 MHz	3.3	2.9	3.1

Test Methods: <sup>1</sup> ASTM D 412, <sup>2</sup> ASTM D 5470, <sup>3</sup> ASTM D 149. All data without warranty and subject to change. Please contact us for further data and information.

Thicknesses: 0.20 mm / 0.30 mm / 0.45 mm

Rth vs. N/cm<sup>2</sup> (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.