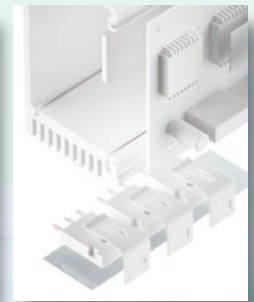


# SILICONE FOIL TFO-K-SI

fibreglass reinforced



TFO-K-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 fibreglass reinforcement provides for an outstanding mechanic stability and cut-through resistance as well as easy handling. For an easy and reliable pre-assembly the interface material is available with low tack pressure sensitive adhesive on one side.



## PROPERTIES

- Thermal conductivity: 2.5 W/mK
- High thermal contact
- Outstanding mechanic stability through fibreglass reinforcement
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use

## AVAILABILITY

- Sheet 320 x 1000 mm
- Roll 320 mm x 50 m
- Non tacky (TFO-K200-SI)
- Tacky on one side (TFO-K200-SI-A1)
- Die cut parts
- Kiss cut parts on roll
- Kiss cut parts on sheet

## APPLICATION EXAMPLES

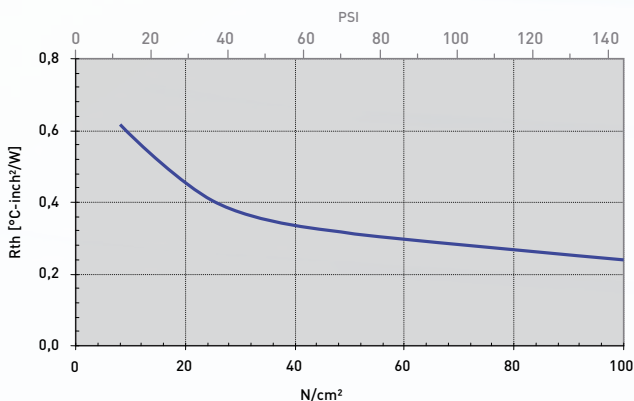
- Thermal link of:
- MOSFETs or IGBTs
  - Power diodes or AC/DC converters
  - Power modules
- For use in Switch mode power supplies / Motor control units / Automotive engine management systems / UPS units / Solar systems

PROPERTIES	Unit	TFO-K200-SI
<b>Material</b>		Ceramic filled silicone
Colour		Grey
Reinforcement		Fibreglass
Thickness	mm	0.23
Tensile Strength <sup>1</sup>	kpsi	2.9
UL Flammability	UL 94	V0
RoHS Conformity	2011 / 65 / EU	Yes
<b>Thermal</b>		
Resistance <sup>2</sup> @ 150 PSI	°C-inch <sup>2</sup> /W	0.24
Resistance <sup>2</sup> @ 30 PSI	°C-inch <sup>2</sup> /W	0.47
Thermal Conductivity	W/mK	2.5
Operating Temperature Range	°C	- 50 to + 200
<b>Electrical</b>		
Breakdown Voltage <sup>3</sup>	kV AC	2.0
Volume Resistivity	Ohm - cm	2.0 x 10 <sup>14</sup>
Dielectric Constant	@ 1 MHz	4.0

Measurement technique according to: <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. Shelf life adhesive: 6 months when stored in original packaging at room temperature and 50% relative humidity.

Thickness: 0.23 mm

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



All technical data and information are without warranty and believed to be reliable and accurate according to the latest state of the art. Since the products are not provided to perform 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.