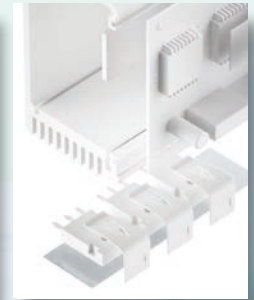


SILICONE FOIL TFO-K-SI

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.



Release 8 / 2017

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:

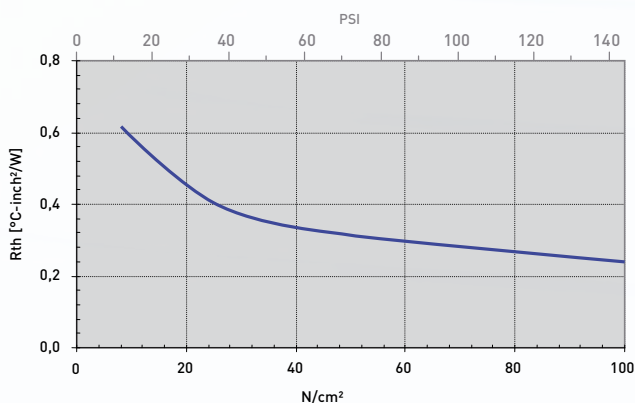
- MOSFETs or IGBTs
- Power diodes or AC/DC converters
- Power modules

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

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

Test Methods: ¹ ASTM D 412, ² ASTM D 5470, ³ 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

R_{th} vs. N/cm² (PSI)

All technical data and information are without warranty and believed to be reliable and accurate. 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.