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

**TECHNICAL DATA SHEET**

**MATERIAL**
- Colour: Grey
- Reinforcement: Fibreglass
- Thickness: 0.23 mm
- ±0.05
- Tensile Strength: 2.9 kpsi
- UL Flammability: UL 94 V0
- RoHS Conformity: Yes (2015 / 863 / EU)

**THERMAL**
- Resistance @ 150 PSI °C-inch²/W: 0.24
- Resistance @ 30 PSI °C-inch²/W: 0.47
- Thermal Conductivity: 2.5 W/mK
- Operating Temperature Range: -50 to +200 °C

**ELECTRICAL**
- Breakdown Voltage: 2.0 kV AC
- Volume Resistivity: 2.0 x 10¹⁴ Ohm - cm
- Dielectric Constant @ 1 MHz: 4.0

**MEASUREMENT TECHNIQUE**
According to: 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