TFO-J-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 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 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: 2.0 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

**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 / High voltage hybrid automotive applications / PS units / Solar systems

**AVAILABILITY**
- Sheet
- Roll 300 mm x 50 m (0.20 / 0.30 mm)
- Roll 300 mm x 25 m (0.45 mm)
- Non tacky (TFO-JXXX-SI)
- Tacky on one side (TFO-JXXX-SI-A1)
- Die cut parts
- Kiss cut parts on roll
- Kiss cut parts on sheet

**SHETS**

**PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>TFO-J200-SI</th>
<th>TFO-J300-SI</th>
<th>TFO-J450-SI</th>
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<tbody>
<tr>
<td>MATERIAL</td>
<td>Ceramic filled silicone</td>
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<td>Reinforcement</td>
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<td>Thickness mm</td>
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<td>Tensile Strength kpsi</td>
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<td>2015 / 863 / EU</td>
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</tbody>
</table>

**THERMAL**
- Resistance @ 150 PSI °C-inch²/W
- Resistance @ 30 PSI °C-inch²/W
- Thermal Conductivity W/mK
- Operating Temperature Range °C

**ELECTRICAL**
- Breakdown Voltage kV AC
- Breakdown Voltage @ 30 PSI
- Volume Resistivity Ohm · cm
- Dielectric Constant @ 1 MHz

**Rth vs. N/cm² (PSI)**

Thicknesses: 0.20 mm / 0.30 mm / 0.45 mm / 0.80 mm

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.

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