TFO-ZS-SI is a high performance electrically insulating thermally conductive silicone foil for an optimised thermal coupling between electronic packages and heat sinks. Through the specific formulation and filling with highly thermally conductive ceramic particles an extremely high thermal conductivity is reached. Its conformal surface structure and flexibility guarantees a very good compliance to the contact surfaces. Thus the total thermal resistance is minimised. The fibreglass reinforcement provides for an outstanding mechanic stability and cutthrough resistance as well as easy handling.

**PROPERTIES**
- Thermal conductivity: 8.0 W/mK
- High surface compliance and flexibility
- Excellent thermal contact
- Outstanding mechanic stability through fibreglass reinforcement
- 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 / Automotive engine management systems / UPS units / Solar systems

**AVAILABILITY**
- Sheet 440 x 510 mm
- Non tacky
- [TFO-ZSXXX-SI]
- Die cut parts

**PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>TFO-ZS0200-SI</th>
<th>TFO-ZS0300-SI</th>
<th>TFO-ZS0450-SI</th>
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</thead>
<tbody>
<tr>
<td><strong>MATERIAL</strong></td>
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<td>Ceramic filled silicone</td>
<td>Ceramic filled silicone</td>
<td>Ceramic filled silicone</td>
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<td>Colour</td>
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<td>White</td>
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<td>Reinforcement</td>
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<td>Fibreglass</td>
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<tr>
<td>Thickness</td>
<td>mm</td>
<td>0.20 ±0.05</td>
<td>0.30 ±0.05</td>
<td>0.45 ±0.05</td>
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<td>Tensile Strength</td>
<td>kpsi</td>
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<td>UL Flammability (Equivalent)</td>
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<td>RoHS Conformity</td>
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<td>2015 / 863 / EU</td>
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<td>Yes</td>
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</tbody>
</table>

**THERMAL**
- Resistance 1 @ 150 PSI °C-inch/W 0.10 0.13 0.17
- Resistance 2 @ 30 PSI °C-inch/W 0.15 0.19 0.24
- Thermal Conductivity W/mK 8.0 8.0 8.0
- Operating Temperature Range °C -40 to +180 -40 to +180 -40 to +180

**ELECTRICAL**
- Breakdown Voltage kV AC 3.6 4.5 5.0

Thicknesses: 0.20 mm / 0.30 mm / 0.45 mm