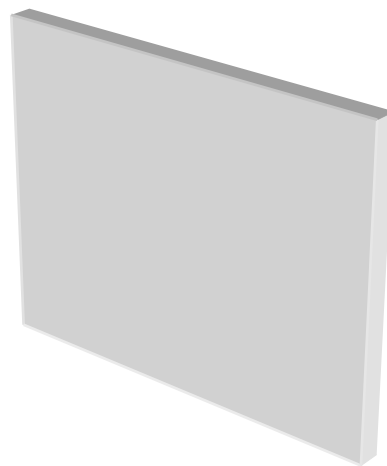


## TM-TIFX Thermally Conductive Silicone Foil

**TM-TIFX** is 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 excellent thermal conductivity is reached. Its conformal surface structure 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 cut-through resistance as well as easy handling.



### Properties

- High surface compliance
- Excellent thermal contact
- Outstanding mechanic stability through fiberglass
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use

### Availability

- Sheet of 440 mm x 510 mm
- Non-tacky
- Die cut parts

### 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

Part	TM-TIFX200	TM-TIFX300	TM-TIFX450	TM-TIFX800
Material	Ceramic filled silicone			
Colour	White			
Reinforcement	Fiberglass			
Thickness [mm]	0,2	0,3	0,45	0,80
UL Flammability [UL 94]	V 0	V 0	V 0	V 0
RoHS Conformity [2002/95/EC]	Yes	Yes	Yes	Yes
Thermal Resistance @150 PSI [°C-inch <sup>2</sup> /W]	0,12	0,16	0,19	0,30
Thermal Resistance @30 PSI [°C-inch <sup>2</sup> /W]	0,17	0,22	0,27	0,38
Thermal Conductivity [W/mK]	5,0	5,0	5,0	5,0
Operating Temperature Range [°C]	-50 to +200	-50 to +200	-50 to +200	-50 to +200
Breakdown Voltage [kV AC]	3	6	9	> 10
Volume Resistivity [Ohm-cm]	1,7 x 10 <sup>15</sup>	7,9 x 10 <sup>15</sup>	9,2 x 10 <sup>15</sup>	8,9 x 10 <sup>15</sup>
Dielectric Constant [@ 1MHz]	3,3	3,3	3,3	3,3

## R<sub>th</sub> vs. N/cm<sup>2</sup> (PSI)

