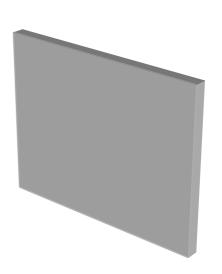


## **TM-TIF Thermally Conductive Gap Filler**

#### **TM-TIF**

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 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**

- Very good thermal contact
- Outstanding mechanic stability through fibreglass
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use

#### **Availability**

- Sheet of 300 mm x 1000 mm
- Roll with 300 mm width
- Non-tacky
- Tacky on one side
- 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

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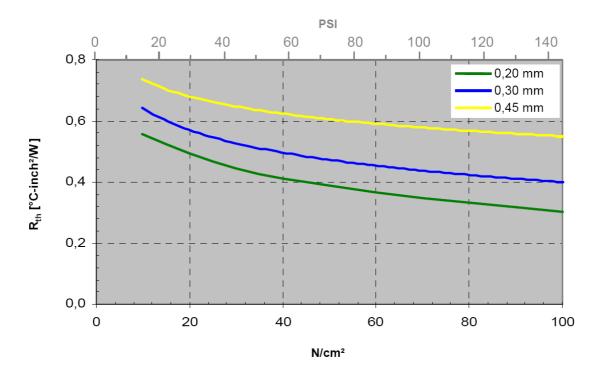
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## **Technical Data**

Part	TM-TIF200	TM-TIF300	TM-TIF450
Material	Ceramic filled silicone		
Colour	Gray		
Reinforcement	Fiberglass		
Thickness [mm]	0,2	0,3	0,45
UL Flammability [UL 94]	V 0	V 0	V 0
RoHS Conformity [2002/95/EC]	Yes	Yes	Yes
Thermal Resistance @150 PSI [°C-inch²/W]	0,30	0,38	0,49
Thermal Resistance @30 PSI [°C-inch²/W]	0,49	0,57	0,68
Thermal Conductivity [W/mK]	2,0	2,0	2,0
Operating Temperature Range [°C]	-50 to +180	-50 to +180	-50 to +180
Breakdown Voltage [kV AC]	> 4 kV	> 6 kV	> 9kV
Volume Resistivity [Ohm-cm]	>1,0 x 10 <sup>11</sup>	>1,0 x 10 <sup>11</sup>	>1,0 x 10 <sup>11</sup>
Dielectric Constant [@ 1MHz]	6,0	6,0	6,0

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



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