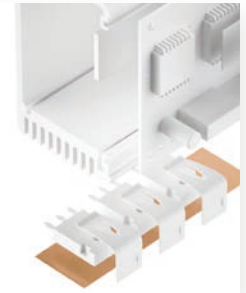


# INSULATING FILM TFO-M-SI-PI

silicone coated, highly dielectric



TFO-M-SI-PI is an electrically insulating thermally conductive foil made of a high voltage resistant Polyimide film with thermally conductive silicone coating on both sides 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 material is characterised by its very high dielectric properties. The substrate film provides for an outstanding mechanic stability and cutthrough resistance as well as easy handling.



Release 03 / 2020

### PROPERTIES

- High thermal contact
- Very high dielectric strength
- Outstanding mechanic stability through substrate film
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use

### AVAILABILITY

- Sheet 320 x 400 mm  
Others on request
- Roll 320 mm x 50 m
- Non tacky (TFO-MXXX-SI-PI)
- 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

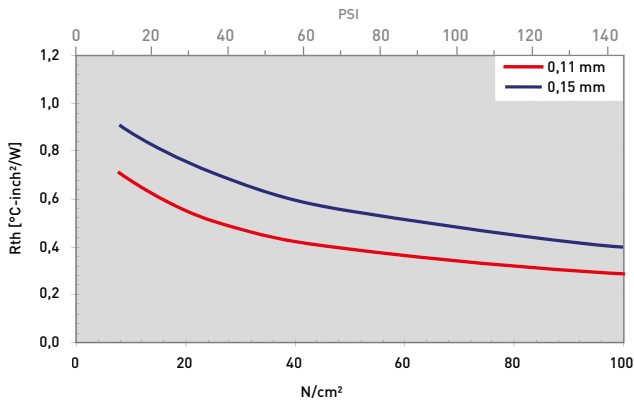
Technical Data Sheet

PROPERTY	UNIT	TFO-M110-SI-PI	TFO-M150-SI-PI
<b>MATERIAL</b>			
MATERIAL		Insulating film coated with ceramic filled silicone	Insulating film coated with ceramic filled silicone
Colour		Light brown	Light brown
Reinforcement		Polyimide film	Polyimide film
Thickness	mm	0.11 ±0.02	0.15 ±0.02
UL Flammability	UL 94	V0	V0
RoHS Conformity	2015 / 863 / EU	Yes	Yes
<b>THERMAL</b>			
Resistance <sup>1</sup> @ 150 PSI	°C-inch <sup>2</sup> /W	0.29	0.40
Resistance <sup>1</sup> @ 30 PSI	°C-inch <sup>2</sup> /W	0.55	0.75
Operating Temperature Range	°C	- 40 to + 180	- 40 to + 180
<b>ELECTRICAL</b>			
Breakdown Voltage <sup>2</sup>	kV AC	6	> 6

Measurement technique according to: <sup>1</sup> ASTM D 5470, <sup>2</sup> ASTM D 149. All data without warranty and subject to change. Please contact us for further data and information.

Thickness: 0.11 / 0.15 mm

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



All technical data and information are without warranty and believed to be reliable and accurate corresponding to the latest state of the art. Since the products are not provided to conform with mutually agreed specifications and their use and processing are unknown we cannot guarantee results, freedom from patent infringement, or their suitability for any application. Product testing by the applicant is recommended. We reserve the right of changes.