

# Thermally conductive products

## Thermiflex® TF 21600

---

**Composition:** Thermiflex® TF 21600 is a silicone film that provides electrical insulation and thermal conductivity, designed to establish thermal connections between electronic components and cooling surfaces. Due to its special formulation and the incorporation of ceramic fillers in the silicone, it offers exceptionally high thermal conductivity.

---

**Properties:** Thermiflex® TF 21600 is characterized by its unique surface structure and material flexibility, allowing for excellent adaptability. This results in a reduction of the overall thermal interface resistance. The fiberglass reinforcement ensures high mechanical stability and ease of handling. Additionally, the material is highly resistant to aging and chemicals.

---

**Applications:** Thermiflex® TF 21600 is used for thermal connection of e.g. MOSFETs, IGBTs, electronic modules and diodes and is used in e.g. rectifiers, inverters, power supplies, UPS devices, motor controls and solar technology.

---

**Standard colour:** Thermiflex® TF 21600 is supplied in the colour white.

---

**Delivery forms:** Thermiflex® TF 21600 is supplied in the form of mats (440 x 510 mm) and as loose moulded parts on request.

---

**Storage conditions:** Thermiflex® TF 21600 should be stored in dry rooms at room temperature and in its original packaging.

Dr. Dietrich Müller GmbH

## Thermiflex® TF 21600

Properties	Unit	Method	Value		
Total thickness	mm	-	0,2 ± 0,05	0,3 ± 0,05	0,45 ± 0,05
Tensile strength	MPa	ASTM D 412	9,1	6,6	4,6
RoHS conformity	2015 /863 / EU	-	Yes	Yes	Yes
Flammability	UL94	-	V0	V0	V0
Thermal resistance @ 1 MPa	°C-inch <sup>2</sup> /W	ASTM D 5470	0,10	0,13	0,17
Thermal resistance @ 200 kPa	°C-inch <sup>2</sup> /W	ASTM D 5470	0,15	0,19	0,24
Thermal conductivity	W/mK	-	8	8	8
Operating temperature range	°C	-	- 40 to + 180	- 40 to + 180	- 40 to + 180
Breakdown voltage	kV AC	ASTM D 149	3,6	4,5	5,0

**Trademark Information:** Thermiflex® is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany

**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.