Dr.D. Müller AHLHORN

Precision components
made of flexible and rigid materials

thermal conductive products

Thermiflex® TF 21535

Description:

Thermiflex® TF 21535 is a thermally conductive, electrically insulating interface material based on a silicone elastomer with ceramic filler and glass fiber carrier. The smooth, adaptable, and non-sticky surface of Thermiflex® TF 21535 reduces thermal contact resistance and enables installation with low contact forces.

Application:

Thermiflex® TF 21535 applies as Heat dissipation and electrical insulation in power supplies, power semiconductors, IGBT and MOS modules, motor controllers, telecommunications equipment, vehicle electronics, as well as high-temperature and high-voltage applications.

Color:

Pink, Gray, or Green

Delivery forms:

Thermiflex® TF 21535 is available in roll form with a maximum width of 330 mm and a thickness of 0,18 mm ± 0,03 mm (dimensions according to customer specifications). Cuts, stamped parts, and shapes according to customer specifications are possible.

Storage conditions:

Thermiflex® TF 21535 should be stored at room temperature in dry rooms.

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info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Seat of the company: Ahlhorn
Managing Director: Dr. Michael Müller | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Certified according to ISO 9001:2015 and ISO 14001:2015
UL recognised repacker E341377

- Production and distribution of electrical insulation materials, thermally conductive products, seals and technical films
- Production of stamped parts, blanks and moulded parts
- Cutting/assembly of films and adhesive tapes
- CNC machining, laser cutting and water jet cutting

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Property	Test method	Unit	Value
Material Composition	-	-	silicone elastomer
filler	-	-	Ceramics
carrier material	-	-	fiber optic
Thickness	ASTM D374	mm	0,18 ± 0,03
thermal conductivity	ASTM D5470	W/(m·K)	2,5
thermal impedance	ASTM D5470	°C·in²/W	0,25
Hardness	ASTM D2240	Shore A	80
breakdown voltage	ASTM D149	V	> 4.500
Dielectric constant (1 kHz)	ASTM D150	-	6.0
Specific transit resistance	ASTM D257	Oh·cm	$1{,}0 \times 10^{14}$
tensile strength	ASTM D412	MPa	6
fracture strain	ASTM D412	%	5
temperature range	-	°C	−60 to +200
flammability	UL 94	-	V-0

Trademark information: Thermiflex® is a registered trademark of Dr Dietrich Müller GmbH, Germany.

Please note:

The information in this technical data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during application, it does not exempt the processor and user from carrying out their own tests and trials. A legally binding guarantee of certain properties or suitability for a specific application cannot be derived from our information. Depending on the individual case, we recommend consulting us. The recipient of our products is responsible for observing any industrial property rights and existing laws.

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