

Thermally conductive products

Thermiflex® TF 21059

Composition: Thermiflex® TF 21059 is a composition of silicone rubber and glass fibre cloth.

Properties: Thermiflex® TF 21059 is flame-resistant and is especially designed for usage as thermal conductive insulator. It has excellent mechanical and physical properties. The material is flexible and enables excellent cut-through resistance, furthermore Thermiflex® TF 21059 is non-toxic and resistant against cleaning agents.

Applications: Thermiflex® TF 21059 is mainly used for the electrical insulation of power sources and heat sinks.

Standard colour: Thermiflex® TF 21059 is delivered in grey colour.

Delivery forms: Thermiflex® TF 21059 is supplied on rolls (up to ca. 400 mm) and as sheet (400 x 400 mm), customer-specific die-cut parts are available on request.

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Storage requirements: Thermiflex® TF 21059 is durable 18 months if equipped with acryl adhesive and 12 months if equipped with silicone adhesive.

Property	Test method	Unit	Value	
Total thickness	-	mm	0.18	0.23
Colour	-	-	Grey	Grey
Rigidity	ASTM D2240	Shore A	85	85
Density	ASTM D792	g/cm ³	2.0	2.0
Tensile strength	ASTM D412	N/mm ²	20	20
Elongation at break	ASTM D412	%	40	40
Long term stress	EN344	°C	-60 up to +180	-60 up to +180
Breakdown voltage	ASTM D149	kV/mm	≥3.5	≥4.5
Thermal conductivity	ASTM E1461	W/m.k	1.5	0.9

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.

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