

Thermally conductive products

Thermiflex® TF PCM 21810

Description: Thermiflex® TF PCM 21810 is a phase change thermal interface material consisting of a silicone-free substrate. When Thermiflex® TF PCM 21810 reaches the temperature for the phase transition point in use, the material changes from solid to a fluid and dynamic state. Thermiflex® TF PCM 21810 fills interfacial gaps, with an extremely low thermal resistance and excellent heat conductivity.

Properties: Thermiflex® TF PCM 21810 has an extremely low thermal resistance and efficient heat dissipation. Thermiflex® TF PCM 21810 is thinned by heat and pressure and the thermal resistance is reduced. Thermiflex® TF PCM 21810 has excellent thermal stability and long-term use.

Applications: Thermiflex® TF PCM 21810 is used in the computer industry, IC market, mobile phone industry, network communication equipment, LED lighting, automotive electronics and aerospace.

Colour: Dark grey

Forms of delivery: Thermiflex® TF PCM 21810 is available in thicknesses from 0.2 mm to 0.5 mm as standard.

Storage conditions: Thermiflex® TF PCM 21810 should be stored at room temperature in dark and dry rooms. The shelf life of Thermiflex® TF PCM 21810 is less than 1 year.

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Property	Test-method	Unit	Value
Thickness	ASTM D374	mm	0,2 ~ 0,5
Density	ASTM D 792	g/cc	2,8± 0,3
Phase change temperature	DSC	°C	50 ± 0,5
Operating temperature	IEC 60068-2-14	°C	- 40 to + 125
Thermal conductivity	ASTM D 5470	W/mK	8,5 ± 0,5
Thermal resistance	ASTM D 5470	°Ccm²/W	≤ 0,045 (@40psi/80°C)

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.