

## Thermal conductivity products

### Thermipad® TP 22840

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**Description:** Thermipad® TP 22840 is a silicone-free gap filler material with low compression force. This makes Thermipad® TP 22840 ideal for applications where sensitive components need to be protected from mechanical stress. Thermipad TP 22840 is suitable for applications where materials containing silicone must be avoided - for example in optical or sensitive electronic systems.

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**Properties:** Thermipad® TP 22840 is a silicone-free gap filler material with very low thermal resistance. Thermipad® TP 22840 is particularly suitable for sensitive electronics and optical systems where only minimal pressure may be exerted on components. TP 22840 complies with flame retardancy class UL94 V-0.

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**Applications:** Thermipad TP 22840 is used in the technology areas of datacom systems, automotive electronics, telecommunication systems and optical modules

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**Color:** grey

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**Forms of delivery:** Thermipad TP 22840 is available in thicknesses from 0.5 mm up to 5 mm in 0.5 mm increments as standard. Cuts and shapes according to customer specifications are possible.

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**Storage conditions:** Thermipad® TP 22840 should be stored at room temperature in dry rooms.

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## Thermipad® TP 22840

Propety	Test-method	Unit	Value
Color	/	/	Grey
Tickness Range	/	mm	0,5 bis 5 +/- 10%
Thermal Conductivity	Hot Disk	W/mK	10,0
Operating Temperature	/	°C	- 65 bis + 125
Density	Helium-Pyknometer	g/cc	3,7
Hardness (shore 00) 3 second/30 second	ASTM D2240		1-5mm: 40/8 0.5-0.75mm: 70/50
Outgassing TML	ASTM E595	Weight %	0,33
Outgassing CVCM	ASTM E595	Weight %	0,15
Thermal Resistance (°C in2/w) 1.5mm, 30 PSI	ASTM D5470	°C in2/w	0,047
Dielectric Breakdown Voltage	ASTM D149	KV/mm	7,5
Dielectric Constant	ASTM D150	/	9
Volume Resistivity	ASTM D257		5 x 10 <sup>13</sup>

**Trademark information:** Thermipad® 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.