

Thermally conductive products

Thermipad® TP 22352

Electrical insulating

Composition: Thermipad® TP 22352 is a soft silicone film with medium thermal conductivity and dielectric strength as well as high elasticity.

Properties: Since Thermipad® TP 22352 has high compressibility, it can connect thermal sources and heat sinks which have great roughness. Therefore castings can become the heat sink itself that means space in the application can be saved. Even side faces of the components are included because of the good conformability of Thermipad® TP 22352 which increases the contact area and therefore improves the thermal connection. At this point the pressure which has to be applied is low which protects conductor boards and castings against damages. The high elasticity also contributes to additional mechanical insulation of the application. Thermipad® TP 22352 is a soft and flexible material which can be processed fast and easily.

Applications: Thermipad® TP 22352 is especially suitable for usage in applications at which the heat has to be transferred to the heat sink over a long distance because of different component height or different tolerances or roughness. These applications are for example: SMD components, capacitors, interfaces and castings or heat sinks, electrolytic capacitors, thermal sensors, high-performance diodes, heat pipes, battery chargers, USV and SMPS.

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Standard colour: Thermipad® TP 22352 is delivered in light grey.

Delivery forms: Thermipad® TP 22352 is available as cuts or die-cut parts according to customer specification or as mats (457mm x 457mm). Other material thicknesses and dimensions are available on request.

Storage requirements: Thermipad® TP 22352 should be stored in its original packaging at max. 40°C.

Properties	Unit	Value
Material	-	Silicone
Thickness	mm	1.52
Rigidity	Shore 00	45
Dielectric breakdown voltage	V (AV)	>6000
Volume resistivity	Ohm*cm	4,0x10 ¹³
Flammability	UL 94	V-0
Thermal conductivity	W/m*K	0.8
Heat transmission resistance	°C/W	2.10
Service temperature	°C	-40 up to 180

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

Dr. Dietrich Müller GmbH

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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.

Dr. Dietrich Müller GmbH