

Thermally conductive products

Thermicap® TT 24021

Composition: Thermicap® TT 24021 is made of a mixture of very good thermally conducting ceramic and silicone.

Properties: Extremely low thermal resistance can be achieved due to adaptable and flexible abilities on uneven surfaces of Thermicap® TT 24021. It is used for applications that require the highest technical demands. It offers very good thermal properties e.g. high thermal conductivity and dielectric strength. Thermicap® TT 24021 is a safe all round insulation that can be processed quickly and neatly.

Applications: Thermicap® TT 24021 is used for thermal coupling insulation of heat sources and heat reduction on cooling elements, power semi-conductors and –modules in power supply units, electric drives, telecommunication modules, engine controls, frequency converters as well as UPS-systems.

Colour: brown

Storage conditions: Thermicap® TT 24021 should be stored in dry rooms at room temperature in its original packaging.

Thermicap® TT 24021

| Property | Unit | Value |
|--------------------------|--------|------------------------|
| Thickness | mm | 0,45 ± 0,10 |
| Tensile strength | MPa | 4,0 |
| Tear strength | kN/mm | 11,8 |
| Breakdown voltage | | |
| Voltage ramp | V(AC) | 16000 |
| Voltage level | V(AC) | 13000 |
| Spec. contact resistance | Ohm*m | 3,5 x 10 ¹³ |
| Dielectric constant | 1000Hz | 6,2 |
| Flammability | | UL 94 VO |
| Thermal conductivity | W/mK | 2,0 |
| Heat transfer resistance | °C/W | 0,36 |
| Operating temperature | °C | -60 to +200 |

Trademark information: Thermicap® 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 the 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