

## Thermally conductive products

### Thermipad® TP 22830

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**Description:** Thermipad® TP 22830 is a silicone-based thermal pad characterised by good electrical insulating properties and good thermal conductivity. The natural tackiness of Thermipad® TP 22830 on both sides of the material enables good adaptation to adjacent component surfaces, minimising interface resistance.

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**Applications:** Thermipad® TP 22830 is used in telecommunications, computers, peripherals and power conversion.

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**Colour:** Grey

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**Forms of delivery:** Thermipad® TP 22830 is available in thicknesses from 0.5 mm to 8 mm. Thermipad® TP 22830 is supplied in blanks, punched parts and moulds according to customer specifications.

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**Storage conditions:** Thermipad® TP 22830 should be stored at room temperature in dry rooms and in its original packaging.

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## Thermipad® TP 22830

| Properties                         | Test Method | Unit                 | Tolerance | Value            |
|------------------------------------|-------------|----------------------|-----------|------------------|
| Colour                             | Visual      | /                    | /         | grey             |
| Thickness                          | ASTM D374   | mm                   | ±5%       | 0,5 to 8         |
| Hardness                           | ASTM D2240  | Shore 00             | /         | 60               |
| Volume Resistivity                 | ASTM D257   | Ω·m                  | /         | 10 <sup>13</sup> |
| Dielectric Constant                | ASTM D150   | 1000Hz               | /         | 5,5              |
| Thermal Conductivity               | ASTM D5470  | W/m.K                | ±10%      | 1,5              |
| Dielectric Breakdown Voltage       | ASTM D149   | Vac                  | ±10%      | >5.000           |
| Continuous Use Temp                | /           | °C                   | /         | -60 to +200      |
| Flammability class according to UL | UL94        | /                    | /         | V-0              |
| Density                            | ASTM D792   | g/cm <sup>3</sup>    | ±0,2      | 2,1              |
| Storage conditions                 | /           | °C                   | ±5°C      | 21               |
| Shelf life                         | /           | Monate               | /         | 24               |
| Gas overflow rate                  | ASTM E595   | weight%              | /         | <0,5             |
| Thermal impedance @10psi/1mm       | ASTM D5470  | C.in <sup>2</sup> /W | ±5%       | 1,62             |
| Thermal impedance @20psi/1mm       | ASTM D5470  | C.in <sup>2</sup> /W | ±5%       | 1,50             |

## Thermipad® TP 22830

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

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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 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.

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