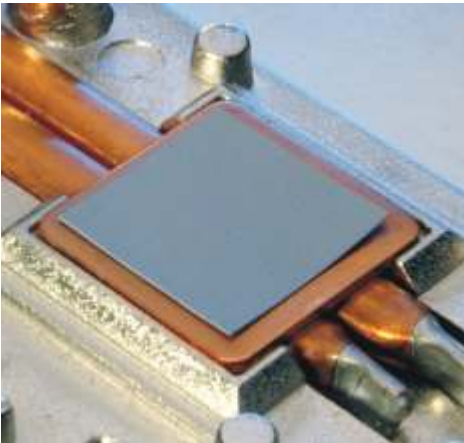


Keratherm[®] - Phase Change Material PCM 471

Applications:

- Notebooks
- Desktop CPU's
- IGBT Units



| Properties | Unit | PCM 471 |
|----------------------------------|-------|------------------------|
| Colour | | grey |
| Compound | | filled hot-setting wax |
| Thermal properties | | |
| Thermal resistance R_{th} | K/W | 0.07 |
| Thermal conductivity | W/mK | 4.0 |
| Electrical properties | | |
| Dielectric breakdown $E_{d, ac}$ | KV/mm | 5.0 |
| Mechanical properties | | |
| measured thickness (+/-10%) | mm | 0.2 * |
| Reinforcement | | without |
| Wax melt-on temperature | °C | 46 |
| Continous operation temperature | °C | +125 |

* optional film thicknesses available!

PCM 471 film is a combination of hot-melt waxes with or without support. The wax mixture in the PCM film melts at various temperatures depending on its dimensions thereby filling even the smallest irregularities between the power module and heat sink. This creates an improved contact between the surfaces and increases the heat transfer. Its special design makes it easy to use and store.

Thermal resistance of PCM 471 in relation with the contact pressure

