

## PCM 471

Keratherm phase-change



Phase-Change-Materials smooth out even the smallest irregularities between the power module and heat sink, thereby improving surface contact and increasing the heat transfer.

Properties	Unit	PCM 471
Colour		grey
Compound		filled hot-setting wax
<b>Thermal Properties</b>		
Thermal resistance $R_{th}$	K/W	0.07
Thermal impedance $R_{ti}$	°Cmm <sup>2</sup> /W	25.6
	Kin <sup>2</sup> /W	0.039
Thermal conductivity $\lambda$	W/mK	4
<b>Electrical Properties</b>		
Breakdown voltage $U_{d, ac}$	kV	0.5
Dielectric breakdown $E_{d, ac}$	kV/mm	2.5
<b>Mechanical Properties</b>		
Measured thickness (+/-10%)	mm	0.200
Hardness	Shore A	70 - 80
Softening interval	°C	46
<b>Physical Properties</b>		
Application temperature	°C	-40 to +125
Density	g/cm <sup>3</sup>	1.82
Possible thickness	mm	0.200

## Applications

- Notebooks
- Desktop CPU's
- IGBT units

## Benefits

- filling of smallest irregularities between the power module and heat sink
- melts at various temperatures
- improves the contact between the surfaces and increases the heat transfer
- special design for easy use and storage

### **Important notes**

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

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