



PCM 115 & PCM 471

KERATHERM® phase-change

Applications

- ◆ IGBT
- ◆ CPU

Benefits

- ◆ very good thermal performance through optimized softening
- ◆ easy application through increased tack

Properties	Unit	PCM 115	PCM 471
Colour		titanium blue	grey
Compound		filled hot-setting wax	filled hot-setting wax
Thermal Properties			
Thermal resistance R_{th}	K/W	0.069	0.070
Thermal impedance R_{ti}	$^{\circ}Cmm^2/W$	27.7	25.6
	Kin^2/W	0.043	0.039
Thermal conductivity λ	W/mK	4.5	4.0
Mechanical Properties			
Measured thickness (+/-10%)	mm	0.200	0.200
Hardness	Shore A	60 - 75	70 - 80
Softening interval	$^{\circ}C$	54 - 60	> 46
Physical Properties			
Application temperature	$^{\circ}C$	-40 to +100	-40 to +125
Density	g/cm^3	1.90	1.82
Possible thickness		details see page 57	

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.

Data for engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

NOTE:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

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