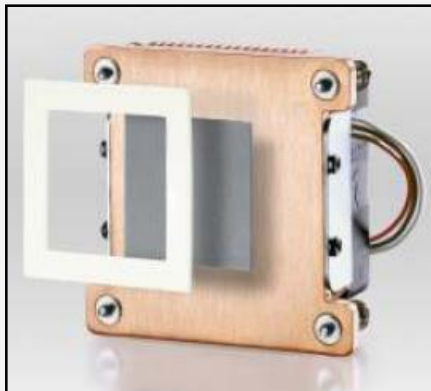


## Keratherm – 86/114

Flexible heat conducting and isolating tape  
(thickness: 0.200 mm & 0.250 mm)



Flexible ceramic heat conducting and isolating tape with defined softening behavior and good electrical isolation.

### APPLICATIONS

- Notebooks
- Desktop CPU's
- IGBT Units

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.

Properties	symbol	unit	86/114
Color			gray
<b>Thermal Properties</b>			
Thermal Resistance	$R_{th}$	K/W	0.15
Thermal Impedance		$^{\circ}\text{Cmm}^2/\text{W}$ $\text{Kin}^2/\text{W}$	61 0.089
Thermal Conductivity	$\lambda$	W/mK	4.0
<b>Electrical Properties</b>			
Dielectric Breakdown	$E_{d;ac}$	KV/mm	5.0
Volume Resistivity		$\Omega\text{cm}$	$2 \times 10^{10}$
Dielectric Loss Factor (1kHz)	$\tan\Omega$	1	$12 \times 10^{-3}$
Dielectric Constant (1kHz)		1	2.0
<b>Mechanical Properties</b>			
Thickness ( $\pm 10\%$ )		Mm	0.250
Hardness		Shore 00	70 – 90
Softening Interval		$^{\circ}\text{C}$	70 - 95
<b>Physical Properties</b>			
Density		$\text{g}/\text{cm}^3$	1.20
Application Temperature		$^{\circ}\text{C}$	-40 to +130
Flame Class		UL 94	pending

The following thicknesses are available: 0.2 mm, 0.25 mm

Note that these new films are special elastomers and do not consist of wax material. Because of their outstanding phase changing characteristics the PCE's or "phase change like" films have the following advantages:

- Very good compressibility thereby very good material adaptability
- Phase-change characteristic without containing wax material
- No melting point but softening interval – no liquidation throughout the whole temperature range
- Electrical insulating
- Excellent reworkability – disassembling without damaging the components
- Can be used for automatic production – easy automatic assembly
- Single-sided adhesive
- RoHS / environmentally friendly
- Also suitable for dispensing