

KP 97

Keratherm Thermal Grease



Keratherm Thermal Greases are ceramic-filled single-component silicones with a high thermal conductivity. The non-cross-linked thermal compounds do not dry out. The silicone components do not leak from the compound.

The silicone-free thermal compound KP 12 consists of synthetic, thermal polymers and is suitable for a fast and effective heat dissipation. The paste is particularly suitable for silicone sensitive applications.

Applications

- Notebooks
- Desktop CPU's
- IGBT unit

Properties	Unit	KP 97
Colour		white
Compound		soft/pasty
Thermal Properties		
Thermal resistance R_{th}	K/W	0.012
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	4.5
	Kin^2/W	0.007
Thermal conductivity λ	W/mK	5
Electrical Properties		
Electrical conductivity (according to DIN 51412-1)	pS/m	0
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.025
Physical Properties		
Application temperature	$^{\circ}\text{C}$	-60 to +150
Density	g/cm^3	2.1
Viscosity*	Pas	70 - 110
Total mass loss (TML)	Ma.-%	< 1.3
Possible thickness	mm	variable
Long term stability (1000h / 85$^{\circ}\text{C}$ / 85% relative humidity)		
Thermal resistance 1000h	K/W	0.012

* Shear rate 4s^{-1} / 25°C

The KP's long-term stability guarantees full operability during the entire life time of the product. Under normal application conditions, Keratherm Thermal Grease does not cure, dry out or melt.

Special storage of Keratherm "Thermal Grease" is not required, therefore it can be stored under normal climate conditions for up to 12 months after manufacturing date.

If any separation of the filler materials becomes evident, the KP's must be mixed thoroughly before use.

