

Keratherm Thermal Grease: KP 12 silicone free



Ceramic-filled single component with a high thermal conductivity for silicone sensitive applications.

The non-crosslinked thermal compounds do not dry out.

APPLICATIONS

- Notebooks
- Desktop CPU's
- Heat Pipes

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	KP 12
Color			silver
Consistency			soft/paste
Thermal Properties			
Thermal Resistance	R_{th}	K/W	0.006
Thermal Conductivity	λ	W/mK	10.0
Electrical Properties			
Dielectric Breakdown	$E_{d;ac}$	KV/mm	-
Mechanical Properties			
Coating Thickness		mm	0.03 – 0.06
Viscosity		Pas	76
Density		g/cm ³	1.4
Application Temperature		°C	-60 to +150
Long Term Stability (1000h / 85°C / 85% relative humidity)			
Thermal Resistance	R_{th}	K/W	0.006
Total Mass Loss (TML)		Ma.-%	≤ 0.1

The silicone-free thermal compound KP12 consists of a synthetic, thermal polymer and is suitable for fast and effective heat dissipation. The paste is particularly suitable for silicone sensitive applications. Its long-term stability guarantees a full operability during the entire life span of the product. Under normal application conditions the KP12 silicone-free does not harden, dry out or melt.

Comparison of the Thermal Resistance of Different Pastes in Dependence on the Contact Pressure

