Keratherm[®] - Thermal Grease KP 92, KP 97, KP 12 (silicone free)

Applications:

- Notebooks
- Desktop CPU's
- IGBT Units



Properites	Unit	KP 92	KP 97	KP 12 silicone free
Colour		silver	white	silver
Compound		soft / pasty		
Thermal properties				
Thermal resistance R _{th}	K/W	0.007	0.012	0.006
Thermal conductivity	W/mK	10.0	5.0	10.0
Electrical properties				
Dielectric breakdown E _{d; ac}	KV/mm	-	2.0	-
Mechanical properties				
Coating thickness (+/-10%)	mm	0.03-0.06	0.03-0.06	0.03-0.06
Viscosity	Pas	65	90 - 120	76
Density	g/cm³	2.6	2.10	1.4
Application temperature	°C	-60 to +200	-60 to +150	
Long term stability (1000h / 85°C / 85% relative humidity)				
Thermal resistance R _{th}	KW	0.008	0.012	0,006
TML	Ma%	0.09	0.5	0.1

Technical data for KP 93, KP 77, KP 68 on request!

KP92 and KP97 are ceramic-filled single-component silicones with a high thermal conductivity. The non-crosslinked thermal compounds do not dry out. The silicone components do not leak out of the compound. The silicone-free thermal compound KP12 consists of synthetic, thermal polymer and is suitable for a 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 time of the product. Under normal application conditions the KP12 silicone-free does not cure, dry out or melt. Special storage of Keratherm "Thermal Grease" is not required, therefore they can be stored under normal climate conditions for up to 12 months. If any separation of the filler materials becomes evident, the KP's must be mixed thoroughly before use.

Comparison of the thermal resistance of different pastes in dependence on the contact pressure psi 58 43.5 0,07 0,06 thermal resistance (K/W) **KP 12** 0,05 **KP 92 KP 97** 0,04 0,03 0,02 0,01 0

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. last updated: 02/2008

contact pressure (N/cm²)

15

30

35

40

10