

## Keratherm Thermal Grease: KP 68



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

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 68       |
|---|------------|-------------------|-------------|
| Color   |            |                   | black       |
| Consistency   |            |                   | soft/paste  |
| <b>Thermal Properties</b>   |            |                   |             |
| Thermal Resistance  | $R_{th}$   | K/W               | 0.01        |
| Thermal Conductivity  | $\lambda$  | W/mK              | 7.0         |
| <b>Electrical Properties</b>                                      |            |                   |             |
| Dielectric Breakdown  | $E_{d;ac}$ | KV/mm             | 0.5         |
| <b>Mechanical Properties</b>                                      |            |                   |             |
| Coating Thickness   |            | mm                | 0.03 – 0.06 |
| Viscosity   |            | Pas               | 375         |
| Density   |            | g/cm <sup>3</sup> | 1.54        |
| Application Temperature   |            | °C                | -60 to +200 |
| <b>Long Term Stability (1000h / 85°C / 85% relative humidity)</b> |            |                   |             |
| Thermal Resistance  | $R_{th}$   | K/W               | 0.02        |
| Total Mass Loss (TML)   |            | Ma.-%             | ≤ 0.3       |

The silicone components do not leak out of the compound. Special storage of KP 68 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, KP 68 must be mixed thoroughly before use.

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

