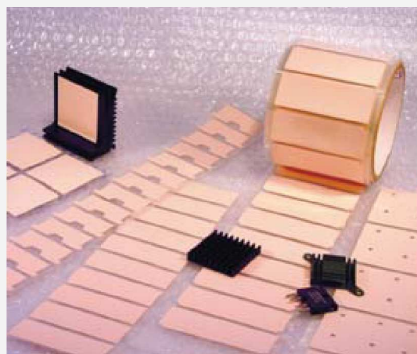


Standard Films: Keratherm Pink



Keratherm[®] pink has outstanding thermal conductivity which is achieved by a specially filled silicone elastomer. The good electrical insulation properties are thereby retained.

APPLICATIONS

- Automotives
- Audio and Video Components
- White Goods
- Power Converters (AC-DC, DC-DC)
- Engine Controllers
- LCD Displays

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 | 86/50 Basic film |
|----------------------------------|---------------|--|----------------------|
| Color | | | pink |
| Thermal Properties | | | |
| Thermal Resistance | R_{th} | K/W | 0.16 |
| Thermal Impedance | R_{ti} | $^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W | 64 0.09 |
| Thermal Conductivity | λ | W/mK | 3.5 |
| Electrical Properties | | | |
| Breakdown Voltage | $U_{d;ac}$ | kV | 1.5 |
| Dielectric Breakdown | $E_{d;ac}$ | KV/mm | 7.0 |
| Volume Resistivity | | Ωcm | 1.3×10^{14} |
| Dielectric Loss Factor | $\tan \delta$ | 1 | 6.7×10^{-2} |
| Dielectric Constant | ϵ_r | 1 | 2.3 |
| Mechanical Properties | | | |
| Overall Thickness ($\pm 10\%$) | | mm | 0.225 |
| Hardness | | Shore A | 72 |
| Tensile Strength | | N/mm ² | 2.0 |
| Elongation | | % | 2.5 |
| Physical Properties | | | |
| Application Temperature | | $^{\circ}\text{C}$ | -60 to +250 |
| Density | | g/cm ³ | 2.4 |
| Flame class | | UL | 94V-0 |

On request, these films can also be supplied with fiberglass reinforcement and with or without adhesive coating. The excellent thermal resistance of this film enables the optimum heat transfer to the heat sink.

Options for Keratherm Pink (Standard Film):

| Type | Film Structure | Overall Thickness | Tensile Strength | Thermal Resistance | |
|-------|--|-------------------|-------------------|--------------------|---------------------|
| | | mm | N/mm ² | K/W | Kin ² /W |
| 86/51 | 86/50 with adhesive coating | 0.250 | 2.1 | 0.25 | 0.13 |
| 86/51 | 86/50 with fiberglass | 0.225 | 15 | 0.28 | 0.14 |
| 86/53 | 86/50 with fiberglass and adhesive coating | 0.250 | 15 | 0.31 | 0.15 |

The following thicknesses are available: 0.125 mm, 0.225 mm, 0.3 mm, 0.4 mm, 0.5 mm