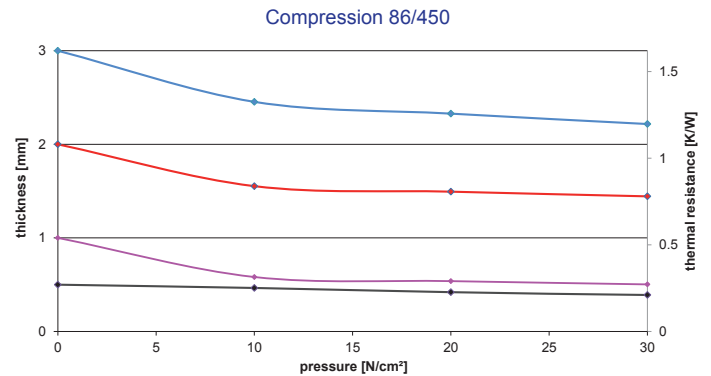


86/450

high thermal conductivity



| Properties | Unit | 86/450 |
|--------------------------------------|---------------------------------|---|
| Colour | | brown |
| Assembly | | single layer, without fibre glass reinforcement |
| Thermal Properties | | |
| Thermal resistance R_{th} | K/W | 0.27 |
| Thermal impedance R_{ti} | $^{\circ}\text{Cmm}^2/\text{W}$ | 108 |
| | Kin^2/W | 0.18 |
| Thermal conductivity λ | W/mK | 4.5 |
| Electrical Properties | | |
| Breakdown voltage $U_{d,ac}$ | kV | 5.0 |
| Dielectric breakdown $E_{d,ac}$ | kV/mm | 10.0 |
| Volume resistivity | Ωm | 3.6×10^{12} |
| Dielectric loss factor $\tan \delta$ | | 3.0×10^{-3} |
| Dielectric constant ϵ_r | | 2.5 |
| Mechanical Properties | | |
| Measured thickness (+/-10%) | mm | 0.500 |
| Hardness | Shore 00 | 65 - 75 |
| Young's modulus | N/cm ² | 95 |
| Physical Properties | | |
| Application temperature | $^{\circ}\text{C}$ | -40 to +180 |
| Density | g/cm ³ | 1.32 |
| Total mass loss (TML) | Ma.-% | < 0.4 |
| Flame rating | UL-94 | V-0* |
| Possible thickness | | details see page 58 |

This group of SOFTTHERM® Films is characterized by its extremely high thermal conductivity. The single layer films without fibre glass reinforcement are soft and compressible. The good dimensional stability of these films ensures a controlled and automated processing.

✓ Optional available with oneside adhesive coating **86/450K**

Data for engineer guidance only.
Observed performance varies in application.
Engineers are reminded to test the material in application.

*KERAFOIL® test according to UL

NOTE:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

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