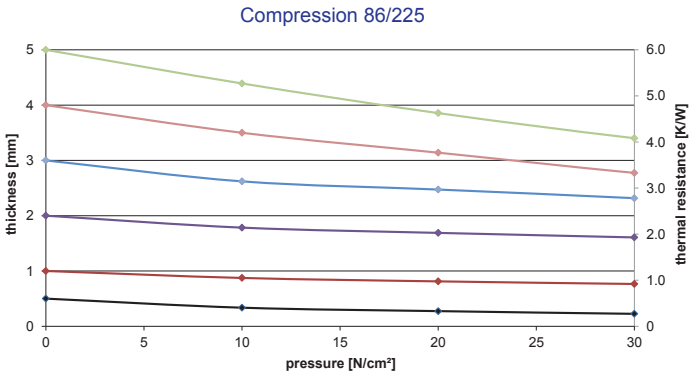
# 86/225 & 86/228

## high elastic




| Properties | Unit | 86/225 | 86/228 |
|---|---|---|---|
| Colour | | orange | pink / orange |
| Assembly | | single layer, fibre-glass reinforcement up to 4.0 mm | double layer carrier film 86/52 in 0.125 mm |
| **Thermal Properties** | | | |
| Thermal resistance $R_{th}$ | K/W | 0.6 | 0.6 |
| Thermal impedance $R_{ti}$ | °Cmm²/W | 240 | 240 |
| | Kin²/W | 0.37 | 0.37 |
| Thermal conductivity λ | W/mK | 2.0 | 2.0 |
| **Electrical Properties** | | | |
| Breakdown voltage $U_{d;\,ac}$ | kV | 6.0 | 6.0 |
| Dielectric breakdown $E_{d;\,ac}$ | kV/mm | 12.0 | 12.0 |
| Volume resistivity | Ωm | $2.2 \times 10^{11}$ | $2.8 \times 10^{11}$ |
| Dielectric loss factor tan δ | | $1.0 \times 10^{-3}$ | $1.0 \times 10^{-3}$ |
| Dielectric constant $\varepsilon_r$ | | 3.6 | 2.5 |
| **Mechanical Properties** | | | |
| Measured thickness (+/-10%) | mm | 0.500 | 0.500 |
| Hardness | Shore 00 | 30 - 45 | 30 - 45 |
| Young´s modulus | N/cm² | 58 | 160 |
| **Physical Properties** | | | |
| Application temperature | °C | -40 to +180 | -40 to +180 |
| Density | g/cm³ | 1.65 | 1.95 |
| Total mass loss (TML) | Ma.-% | < 0.44 | < 0.44 |
| Flame rating | UL-94 | V-0 | V-0* |
| Possible thickness | mm | 0.5 - 5.0 | 0.5 - 5.0 |

**KERAFOL® test according to UL

Single layer SOFTTHERM® Films with graded thermal behavior. These films are partial fibreglass reinforced and an alternative to the two layer SOFTTHERM® Films.

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

**Attention**

At maximum pressure, SOFTTHERM® Films should not be compressed beyond 30% of the original thickness.
In case the material should be compressed more than 30%, the SOFTTHERM® material may leak out.

**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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