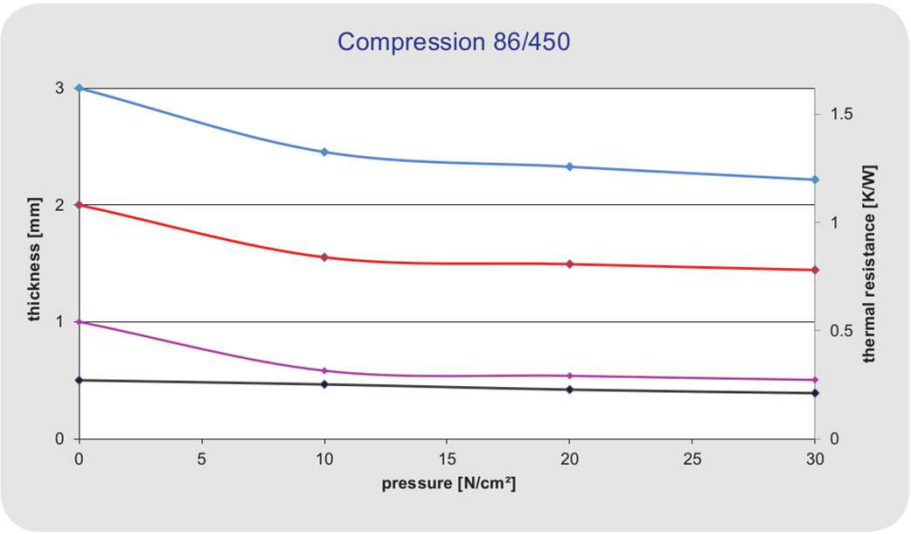
# Thermal Interface Material

# 86/450

KERAFOL®
Keramische Folien GmbH

- Soft material
- Single layer material
- No glass fiber
- Good thermal performance

| Properties | Unit | 86/450 |
|---|---|---|
| Color | | Brown |
| **Thermal Properties** | | |
| Thermal Conductivity | W/mK | 4.5 |
| Thermal Resistance | K/W | 0.27 |
| | | |
| **Electrical Properties** | | |
| Breakdown Voltage $U_{d;\,ac}$ | kV | 5 |
| Dielectric Breakdown $E_{d;\,ac}$ | kV/mm | 10 |
| Volume Resistivity | Ωm | $3.6 \times 10^{12}$ |
| Dielectric Constant $\varepsilon_r$ | | 2.5 |
| Dielectric Loss factor tanδ | | $3 \times 10^{-3}$ |
| | | |
| **Mechanical Properties** | | |
| Hardness | Shore 00 | 65-75 |
| Young's Modulus | N/cm² | 95 |
| | | |
| **Physical Properties** | | |
| Application Temperature | °C (°F) | -40 to +180 (-40 to +356) |
| Density | g/cm³ | 1.32 |
| Total Mass Loss (TML) | % | <0.4 |
| Flame rating | UL-94 | V-0 |
| Standard Thickness | mm (inch) | 0.5, 1.0 (0.02, 0.04) |




## Applications

- Lighting
- Appliances
- Automotive
- Control units
- Larger applications

## Options

- Available with one side adhesive coating as 86/450K
- Other thicknesses maybe available, subject to minimum order quantities

The data provide engineering guidance, performance in actual applications should be established through testing.

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