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KERAFOL

Hightech aus der Oberpfalz

Keramische Folien GmbH

Keratherm® - Softtherm®
86/300, 86/500, 86/600

This group of Softtherm® films has the best thermal behavior. The films are characterized by low thermal resistance and best heat dissipation, as well as good dielectric strength. Good compressibility and low shore hardness ensure reliable and simple processability.

Applications:

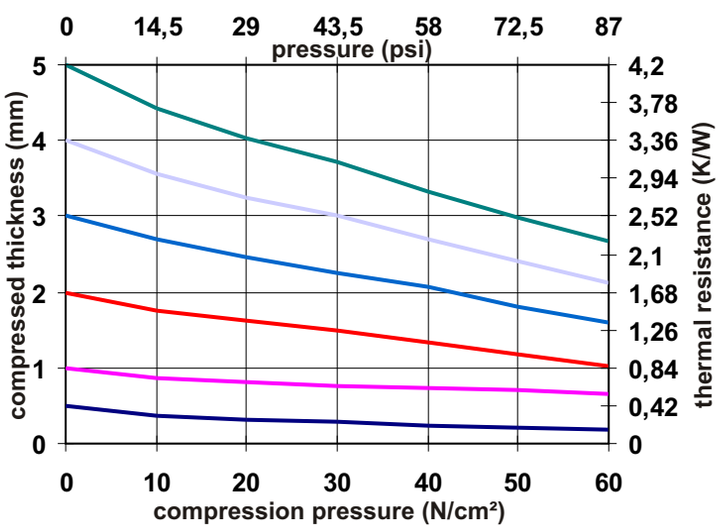
- RD-RAM memory modules
- Heat pipe thermal solutions
- Automotive engine
- Control units
- Plasma supply console

Optional available with adhesive coating!
The following film thicknesses are available:
86/300: 0.5 - 5.0 mm
86/500: 0.5 - 2.0 mm
86/600: 0.5 mm; 1.0 mm; 1.5 mm

Properties	Unit	86/300	86/500	86/600 NEW
Colour		blue	brown	grey
Thermal properties				
Thremla resistance R_{th}	K/W	0.41	0.25	0.20
Thermal impedance R_{ti}	°Cmm²/W Kin²/W	166 0.25	100 0.15	80.0 0.12
Thermal conductivity λ	W/mK	3.0	5.0	6.0
Electrical properties				
Breakdown voltage $U_{d;\,ac}$	kV	8.0	1.0	1.5
Volume resistivity	Ωcm	1.0×10^{11}	1.0×10^{11}	1.7×10^{10}
Dielectric loss factor tan δ	1	5.0×10^{-3}	1.5×10^{-3}	2.0×10^{-3}
Dielectric constant ε_r	1	3.3	3.9	2.5
Mechanical properties				
Thickness (+/-10%)	mm	0,5	0.5	0.5
Hardness	Shore 00	65	75	60 - 70
Youngs modulus *	N/cm²	220	634	692
Physical properties				
Application temperature	°C	-60 to +200	-40 to +200	-60 to +150
TML	Ma.-%	< 0.35	< 0.24	< 0.40
Flame class	UL	94V-0	-	being tested

* Youngs modulus- sample size 30mmx30mmx2.5mm; variable contact pressure; compression 50% of the measured thickness

Compressibilities of Softtherm® 86/300



Compressibilities of Softtherm® 86/500