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KERAFOL

Hightech aus der Oberpfalz

Keramische Folien GmbH

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

Applications:

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

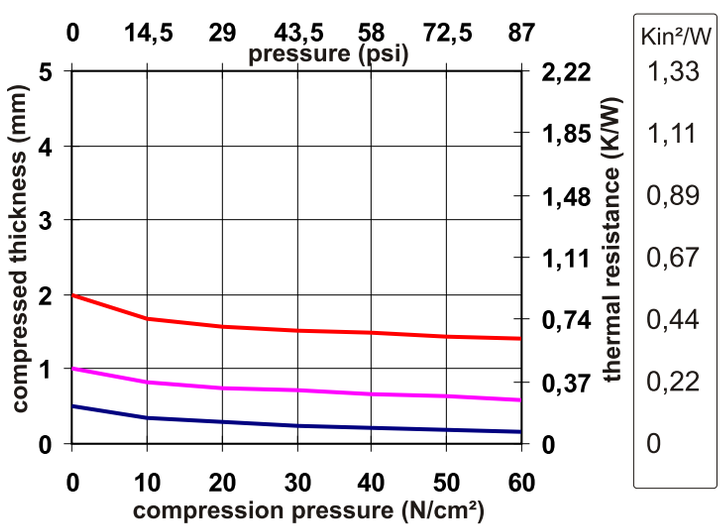
Optional available with adhesive coating!

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. Compressibility and low shore hardness ensure reliable and simple processability.

Properties	Unit	86/500	86/600
Colour		brown	grey
Thermal properties			
Thermal resistance R_{th}	K/W	0.25	0.20
Thermal impedance R_{ti}	°Cmm²/W Kin²/W	100 0.15	80 0.12
Thermal conductivity λ	W/mK	5.0	6.0
Electrical properties			
Breakdown voltage $U_{d;\,ac}$	kV	1	1.5
Dielectric breakdown $E_{d;\,ac}$	kV/mm	2	3
Volume resistivity	Ωm	1.0×10^{11}	1.7×10^{10}
Dielectric loss factor tan δ	1	1.5×10^{-3}	2.0×10^{-3}
Dielectric constant ε_r	1	3.9	2.5
Mechanical properties			
Measured thickness (+/-10%)	mm	0.5	0.5
Hardness	Shore 00	70 - 80	60 - 70
Youngs modulus *	N/cm²	70	77
Physical properties			
Density	g/cm³	1.33	1.28
Application temperature	°C	-60 to +200	-60 to +180
TML	Ma.-%	< 0.24	< 0.40
Flame class	UL	-	-
Possible thickness**	mm	0.5 – 2.0	0.5 – 1.5

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

Compressibilities of Softtherm® 86/500



Compressibilities of Softtherm® 86/600