

Keratherm[®] - Softtherm[®]

86/200, 86/210

Applications:

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

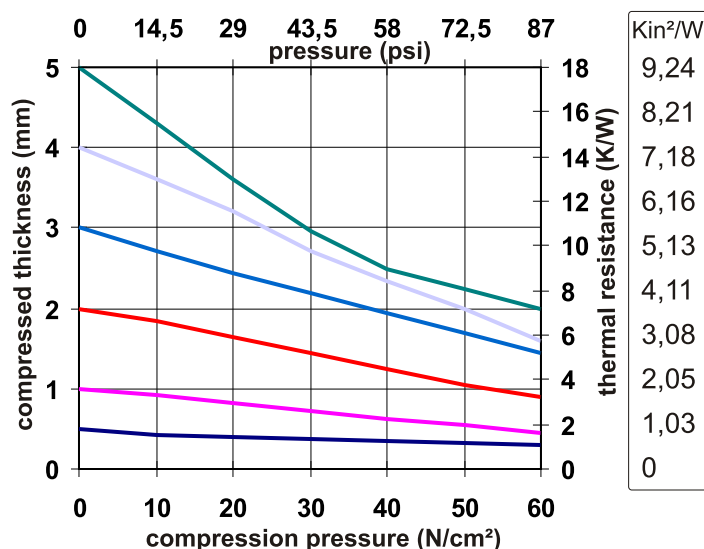
Optional available with adhesive coating!

A group of highly elastic, ceramic-filled films. They are characterized by their excellent compressibility, their optimum plasticity with good thermal conductivity and good electrical properties. These films are especially suitable for compensating differences in planarity of the components or pressure-sensitive applications. The film type 86/210 is also characterized by its optimized outgassing and low bleeding behaviour.

Properties	Unit	86/200	86/210 (low bleeding)
Colour		pink/yellow	pink/yellow
Thermal properties			
Thermal resistance R_{th}	K/W	1.50	1.50
Thermal impedance R_{ti}	$^{\circ}Cmm^2/W$ Kin^2/W	500 0.77	500 0.77
Thermal conductivity λ	W/mK	1,0	1.0
Electrical properties			
Breakdown voltage $U_{d, ac}$	kV	8.0	8.0
Dielectric breakdown $E_{d, ac}$	kV/mm	16	16
Volume resistivity	Ωm	1.0×10^{11}	1.0×10^{11}
Dielectric loss factor $\tan \delta$	1	1.5×10^{-3}	1.5×10^{-3}
Dielectric constant ϵ_r	1	3.9	3.9
Mechanical properties			
Measured thickness (+/-10%)	mm	0.5	0.5
Hardness	Shore 00	10 - 20	15 - 25
Youngs modulus *	N/cm ²	22	77
Physical properties			
Density	g/cm ³	1.61	1.62
Application temperature	$^{\circ}C$	-60 to +200	-60 to +200
TML	Ma.-%	< 0.40	< 0.24
Flame rating	UL	94V-0	94V-1
Possible thickness**	mm	0.5 - 5.0	0.5 - 5.0

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

Compressibilities of Softtherm[®] 86/200



Compressibilities of Softtherm[®] 86/210

