

Keratherm[®] - Softtherm[®] 86/250, 86/255

Applications:

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

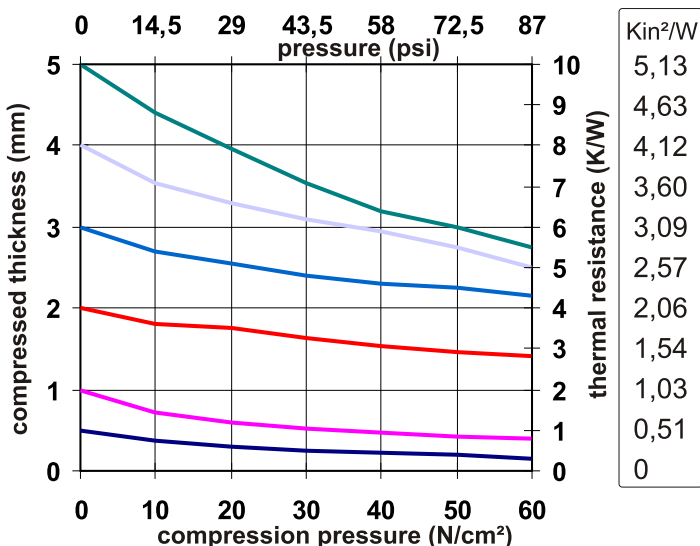
Optional available with adhesive coating!

This group of Softtherm[®] was created as a result of intensive collaboration with our customers. The films are characterized by their high thermal conductivity and the varying levels of hardness of the materials.

Properties	Unit	86/250	86/255
Colour		white/red	white/red
Thermal properties			
Thermal resistance R_{th}	K/W	0.95	0.85
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	385 0.6	250 0.39
Thermal conductivity λ	W/mK	1.3	2.0
Electrical properties			
Breakdown voltage $U_{d; ac}$	kV	8	10
Dielectric breakdown $E_{d; ac}$	kV/mm	16	20
Volume resistivity	Ωm	1.0×10^{11}	1.0×10^{11}
Dielectric loss factor $\tan \delta$	1	2.5×10^{-3}	2.5×10^{-3}
Dielectric constant ϵ_r	1	3.8	3.8
Mechanical properties			
Measured thickness (+/-10%)	mm	0.5	0.5
Hardness	Shore 00	45 - 55	30 - 40
Youngs modulus *	N/cm ²	15	30
Physical properties			
Density	g/cm ³	1.76	1.8
Application temperature	$^{\circ}\text{C}$	-60 to +200	-60 to +180
TML	Ma.-%	< 0.42	< 0.44
Flame rating	UL	-	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[®] 86/250



Compressibilities of Softtherm[®] 86/255

