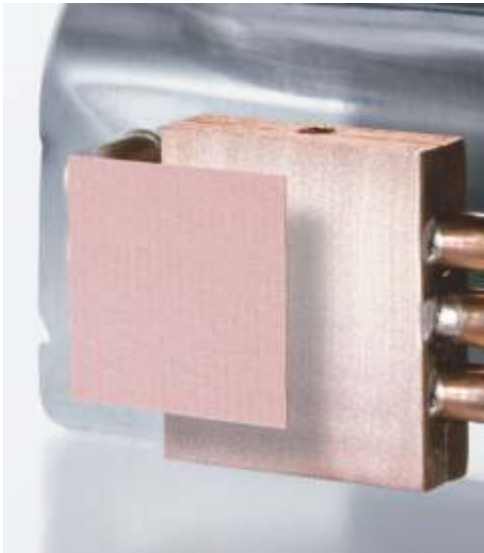


Keratherm® - red Standard Films

Applications:

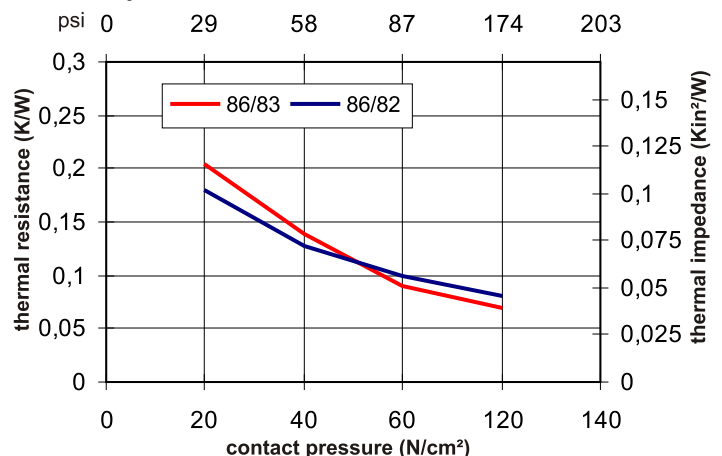
- "High End" solutions
- Controll boards
- BGA applications
- Hard-disc-drives

Properties	Unit	86/82 with fibre glass	86/83 with fibre glass
Colour		red	red
Thermal properties			
Thermal resistance R_{th}	K/W	0.09	0.07
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	35	31,2
	Kin^2/W	0.05	0.04
Thermal conductivity λ	W/mK	6.5	8.0
Electrical properties			
Breakdown voltage $U_{d; ac}$	kV	1.0	1.0
Dielectric breakdown $E_{d; ac}$	kV/mm	4.0	4.0
Volume resistivity	Ωm	2.0×10^{14}	5.9×10^{15}
Dielectric loss factor $\tan \delta$	1	1.4×10^{-3}	3.0×10^{-2}
Dielectric constant ϵ_r	1	2.4	1.83
Mechanical properties			
Measured thickness (+/-10%)	mm	0.250	0.250
Hardness	Shore A	60 - 70	55 - 70
Tensile strength	N/mm ²	13	10
Elongation	%	2	2
Physical properties			
Application temperature	$^{\circ}\text{C}$	-40 to +200	
Density	g/cm ³	1.23	1.10
Flame rating	UL	94V-0	-
Possible thickness*	mm	0.25 – 0.5	0.25 – 0.5



This film is especially suitable for high-power applications. It has excellent thermal and electrical properties. Thanks to its good performance, the Keratherm red can be used reliably in densely packed electronic applications.

Compressibilities Keratherm® - red 86/82, 86/83



Options for Keratherm® -red

Type	Film structure	Overall thickness mm	TML Ma.-%	Tensile strength N/mm ²	Thermal resistance	
					K/W	Kin ² /W
86/82lb	86/82 with fibre glass as low bleeding	0.250	< 0.29	10	0.14	0.09