

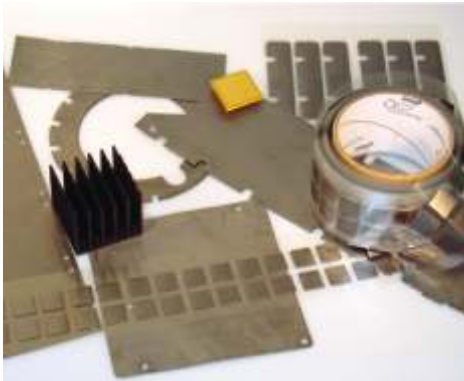
Datasheet

Keratherm® - Graphite

90/10, 90/10 S, 90/15, 90/20, 90/25

Applikationen:

- Chipsets
- Memory chips
- Micro BGA



Properties	Unit	90/10 basic film	90/25
Color		black	black
Thermal Properties			
Thermal resistance R_{th}	K/W	0.09	0.05
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	36 0.05	21 0.03
Thermal conductivity	W/mK	5.5	7.0
Electrical Properties			
Breakdown voltage $U_{d; ac}$	kV	not insulating	not insulating
Volume resistivity	cm	0.07	0.05
Mechanical Properties			
Overall thickness (+/-10%)	mm	0.200	0.125
Hardness	Shore D	30	30
Tensile strength	N/mm ²	5.5	4.0
Elongation	%	10	10
Physical Properties			
Application temperature	$^{\circ}\text{C}$	-40 to +500	-40 to +500
Density	g/cm ³	1.0	1.1
Flame class	UL	94V-0	94V-0

Available thicknesses: 0,200 mm, 0,250 mm, 0,350 mm, 0.750 mm, 1,00 mm

Keratherm® graphite films are based on 100% pure graphite. The films are available as uncoated types or for specific applications, coated with thermal wax, filled adhesive or standard adhesives. Because of their high thermal conductivity they are used e.g. in the CPU sector.

Options for Keratherm® - Graphite:

Type	Tape assembling	Thickness mm	Tensile strength N/mm ²	Thermal resistance	
				K/W	Kin ² /W
90/10 S	90/10 with PCM-mixture	0.250	5.5	0.07	0.05
90/15	90/10 with filled adhesives	0.175	6.0	0.07	0.04
90/20	90/10 with standard-adhesives	0.250	5.5	0.23	0.10