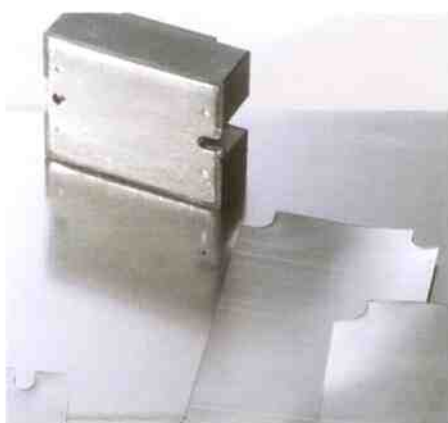


Keratherm® - Graphite 90/10, 90/15, 90/20, 90/25

Applikationen:

- Chipsets
- Memory chips
- Micro BGA



Properties	Unit	90/10 basic film	90/25
Colour		black	black
Thermal Properties			
Thermal resistance R_{th}	K/W	0.09	0.05
Thermal impedance R_{ij}	$^{\circ}\text{Cmm}^2/\text{W}$	36	21
	Kin^2/W	0.05	0.03
Thermal conductivity (z/x-y)	W/mK	5.5 / 55	7.0 / 150
Electrical Properties			
Breakdown voltage $U_{d, ac}$	kV	not insulating	not insulating
Volume resistivity	Ωcm	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

Die 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.

Available thicknesses:

0.200 mm,
0.250 mm,
0.350 mm,
0.750 mm,
1.00 mm

Options for Keratherm® - Graphite

Type	Tape assembling	Thickness mm	Tensile strength N/mm^2	Thermal resistance	
				K/W	Kin^2/W
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