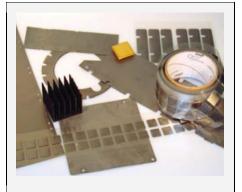
DATASHEET



Keratherm Graphite 90/10, 90/15, 90/20



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.

APPLICATIONS

- Chipsets
- Memory Chips
- Micro BGA's

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.

Properties	symbol	unit 90/10 basis foil					
Color			black				
Thermal Properties							
Thermal Resistance	R_{th}	K/W	0.09				
Thermal Impedance	R _{ti}	°Cmm²/W Kin²/W	36 0.05				
Thermal Conductivity	λ z (x-y)	W/mK	5.5 (200)				
Electrical Properties							
Breakdown Voltage	$U_{d;ac}$	kV	conductive				
Electrical Resistance	z (x/y)	Ωµm	650 – 700 (6 - 8)				
Mechanical Properties							
Overall Thickness (±10%)		mm	0.200				
Hardness		Shore D	25 - 35				
Tensile Strength		N/mm ²	5.5				
Elongation		%	10				
Physical Properties							
Application Temperature		°C	-40 to +500				
Density		g/cm ³	> 1.0				
Flame Class		UL	94V-0				
TML		Ma.%	0.01				
Possible Thickness		mm	0.150 - 0.200				

Options for Keratherm 90-Series:

Туре	Film Structure	Overall Thickness	Tensile Strength	Thermal Resistance	
		mm	N/mm ²	K/W	Kin²/W
90/15	90/10 with filled adhesives	0.200	6.0	0.07	0.04
90/20	90/10 with standard adhesives	0.250	5.5	0.23	0.10



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