KERAFOL Keramische Folien GmbH

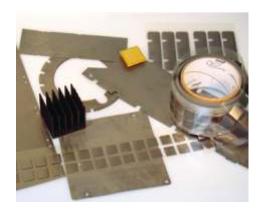
Hightech aus der Oberpfalz

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}	°Cmm²/W Kin²/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 resistiviy	cm	0.07	0.05				
Mechanical Properties							
Overall thickness (+/-10%)	mm	0.200 0.125					
Hardness	Shore D	30 30					
Tensile strength	N/mm²	5.5	4.0				
Elongation	%	10	10				
Physical Properties							
Application temperature	°C	-40 to +500	-40 to +500				
Density	g/cm³	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:

Туре	Tape assembling	Thickness	Tensile strength	Thermal resistance	
		mm	N/mm²	K/W	Kin²/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

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.