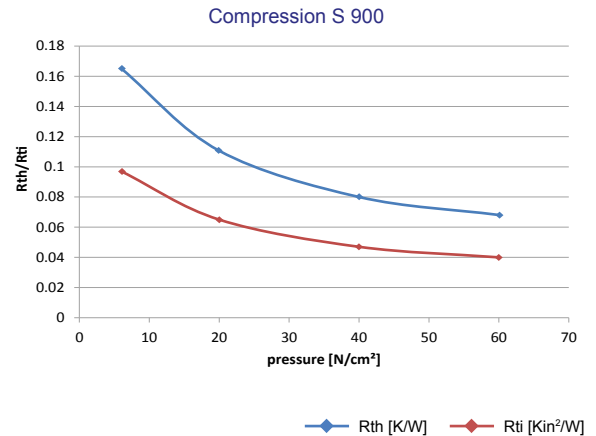


S 900

Interface Material

Applications

- ◆ Chipsets
- ◆ Memory chips
- ◆ Micro BGA



Properties	Unit	S 900
Colour		black
Thermal Properties*		
Thermal resistance R_{th}	K/W	0.08
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	34
	Kin^2/W	0.047
Thermal conductivity $\lambda z (x/y)$	W/mK	7.5 (> 300)
Electrical Properties*		
Breakdown voltage $U_{d;ac}$	kV	conductive
Electrical resistance $z (x/y)$	$\Omega\mu\text{m}$	700 - 800 (7 - 9)
Mechanical Properties		
Hardness	Shore D	25 - 35
Tensile strength	N/mm ²	10.0
Elongation	%	5
Physical Properties		
Application temperature	$^{\circ}\text{C}$	-40 to +500
Density	g/cm ³	> 1.6
Total mass loss (TML)	Ma.-%	0.01
Flame rating	UL-94	V-0
Possible thickness	mm	0.15 - 0.29

* Measured @ thickness 0.29 mm

Graphite S 900 is a highly densified, natural graphite without binding material, which is rolled or pressed into films or plates. S 900 has exceptional qualities and is therefore used particularly as a cost-effective alternative to conventional interface material. Especially, the anisotropy of the thermal properties (coupled with a possible weight saving of up to 30% compared to conventional materials made of copper or aluminum), makes the S 900 interesting for headspreader applications.

In addition, applications in vacuum or even at high temperatures (400 °C) are possible. Graphite S 900 has no electrical insulation and can be customized and applied with an adhesive coating.

✓ Optional available with onside adhesive coating as **S 900K**

Data for engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

NOTE:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

01-2023