

# S 900

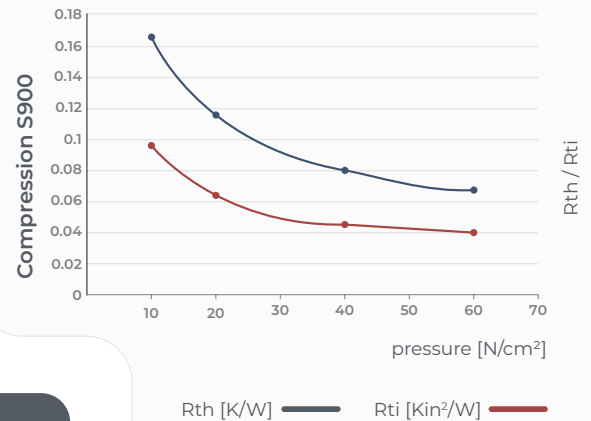
## Interface Material

### Benefits

- Outstanding thermal performance
- Heat spreading effect, perfect match for “Hot Spots”
- electrically conductive
- Non sticky, available with adhesive coating
- High temperature stability

Properties	Unit	S 900
Colour		black
<b>Thermal Properties*</b>		
Thermal resistance $R_{th}$	K/W	0.08
Thermal conductivity $\lambda_z (x/y)$	W/mK	7.5 (>300)
<b>Electrical Properties*</b>		
Breakdown voltage $U_{d,AC}$	kV	conductive
Electrical resistance $z (x/y)$	$\Omega\mu m$	700-800 (7-9)
<b>Mechanical Properties</b>		
Hardness	Shore D	25-35
Tensile strength	N/mm <sup>2</sup>	10.0
Elongation	%	5
<b>Physical Properties</b>		
Application temperature	°C	-40 to +500
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 dense, 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 higher 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**

## **Note**

### **Disclaimer of Warranties and Limitation of Liability**

The specifications provided in this data sheet do not constitute a guarantee or warranty of specific product properties („quality guarantee“). These specifications are derived from our standardized testing procedures conducted under controlled laboratory conditions and are intended to describe the typical properties of the products as expected under standard applications. Variations may occur depending on the specific application. Accordingly, it is the responsibility of the customer to test and evaluate the products for their intended use, and adjustments to the application may be required.

The customer assumes full responsibility for the safety and functionality of their applications in which these products are integrated. Appropriate safety measures must be implemented to prevent bodily injury, fire, or other damages resulting from product defects. The customer is also responsible for ensuring that the design of their application complies with all applicable laws, regulations, codes, and standards.

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