

S 900

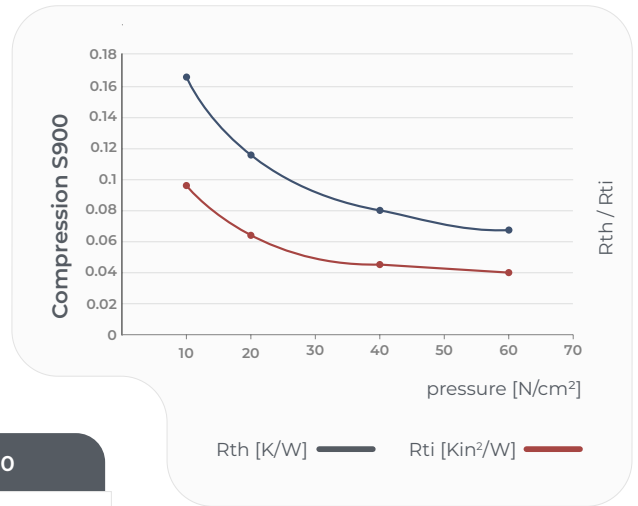
Interface Material

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
Thermal Properties*		
Thermal resistance R_{th}	K/W	0.08
Thermal resistance 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
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**