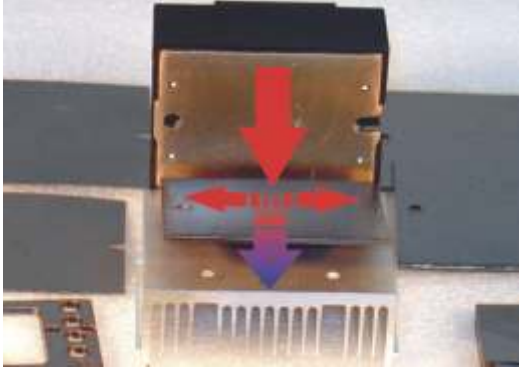


Keratherm[®] - Graphite S 900 (Interface Material)



Properties	Unit	S 900
Colour		black
Thermal properties		
Thermal resistance R_{th}	K/W	0.08
Thermal imdedance R_{ti}	$^{\circ}Cmm^2/W$ Kin^2/W	34 0.047
Thermal conductivity λ_z (x/y)	W/mK	7.5 (>500)
Electrical properties		
Electrical resistance z (x/y)	$\Omega\mu m$	6 – 9 (700-800)
Breakdown voltage $U_{d; ac}$	kV	conductive
Mechanical properties		
Measured thickness (+/-10%)	mm	0.29
Hardness	Shore D	25 - 35
Tensile strength	N/mm ²	10
Elongation	%	5
Physical properties		
Application temperature	$^{\circ}C$	-40 to +500
Density	g/cm ³	> 1.6
Flame rating	UL	94V-0
TML	Ma.%	0.01
Possible thickness*	mm	0.140 – 0.290

Keratherm[®] - Graphite S 900 is a highly densed 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 heatspreader 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.