



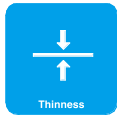
Synthetic Graphite Sheet

Overview

SF-HT****S-1500 series thermal spreader film is a kind of new type high efficient heat spread material dealing with high integration, high intelligence, narrow space, high calorific value, and when it will not be able to use the active cooling materials, SF-HT series thermal spreader film is preferred, At present, the thermal conductivity coefficient at horizontal direction of our some products can reach to 1500 W/mK~1800 W/mK, the thinnest is 0.019 mm, and customize according to the special requirements of the customers and provide thermal solution at the same time. Products can be provided double side cover or non coating.

Characteristic

High toughness, excellent thermal diffusion properties in horizontal direction, Can very quickly spread of heat from the concentration, so as to realize temperature reduction of heat spot and the whole device. Making the equipment and the machine operate for along time. Equipment will be not abnormal because of the high temperature. Usage temperature range from extremely low temperature to 3000°C it also can reach 120°C while adding protective film adhesive. no gas and liquid penetrability, not aging and embrittling, suitable for most chemical medium, not exclude health damage, no asbestos, anisotropy, particularly reflected in the conductive and heat conduction performance.



Properties	Unit	SF-HT****S-1500
Color	/	Black
Thermal conductivity $\lambda(z)$	W.mK	10
Thermal conductivity $\lambda(x/y)$	W.mK	1500
Contact Resistance at 14.5PSI	°Ccm ² /W	0.1@0.025
Adhesive&Plastic Thermal conductivity	W/mK	0.16
Thickness Without Adhesive&Plastic	Mm	0.017~0.07
Electronic Resistivity Rth	$\mu\Omega$ m	0.5@18000
Extensional Strength	M/pa	35
Thermal Diffusivity	mm ² /S	850~1000
Density	g/cm ³	2.1
Specific Heat@25°C	J/Kg°C	830
Coefficient of thermal expansion	m/m-°C	0.4x10 ⁻⁶ ·28x10 ⁻⁶
Electric Conductivity	S/cm	19500·5
Application temperature(Coating with Adhesive&Plastic)	°C	-42~+400(120)
Flammability Rating UL	/	94V-0