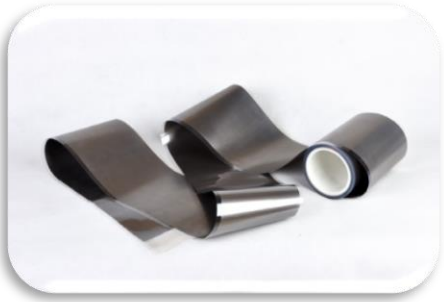
● Product Introduction



Graphite Sheet is a thermal interface material which is very thin, ultralight, synthetically made, and it has high thermal conductivity (up to 1900 W/m-K).
It is sintered by polyimide film.
It is ideal for providing thermal management/heat-sinking in limited spaces or providing supplemental heat-sinking in addition to conventional means.
It is flexible and can be cut into customized shapes.

● Product application

Synthetic graphite sheet is widely used in telecommunications industry, medical equipment, laptops, smart phones, PDP, PC tablet, LED board, new energy, etc.

● Product Code Description

● Explanation of Part Numbers

1	2	3	4		5	6	7	8	9	10	11	12
DSN	50	25	X	—	05	D	C	05	S	C		

Company code

Product code

Product type

Product thickness	
17	17um
25	25um
32	32um
40	40um
50	50um
60	60um
70	70um
80	80um
90	90um
100	100um

Adhesive thickness	
05	5um
10	10um
12	12um
30	30um

D	Double side adhesive

Double adhesive color	
C	Clarity
B	Black

Adhesive thickness	
05	5um
10	10um
12	12um
30	30um

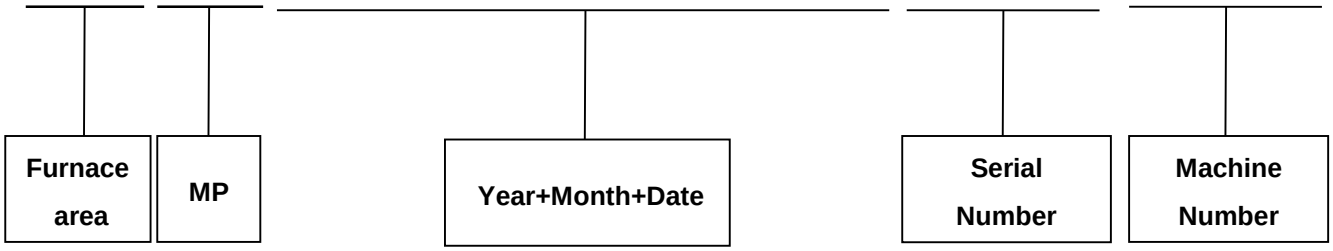
S	Single side adhesive

Special requirements reservation code

Single adhesive color	
C	Clarity
B	Black

● Production Lot Number

1	2	3	4	5	6	7	8	9	10	11	12
B	W	X_1	X_2	X_3	X_4	X_5	X_6	X_7	X_8	X_9	X_{10}



● Product Technical Parameters - 1

Item No.		DSN5017 17um	DSN5025 25um	DSN5032 32um	DSN5040 40um
Thickness (um)		17±3	25±3	32±4	40±4
Thermal conductivity	X-Y axis (w/m.k)	1600~1800	1500~1700	1400~1600	1200~1400
	Z axis (w/m.k)	10~15	10~15	10~15	10~15
In-plane thermal diffusivity (mm^2/s)		950~1060	940~1060	860~990	780~920
Density (g/cm^3)		2.10±0.1	2.00±0.10	1.90±0.1	1.80±0.1
Heat capacity (J/g/K)		0.85±0.01	0.85±0.01	0.85±0.01	0.85±0.01
Operation temperature (℃)		-40~400	-40~400	-40~400	-40~400
Conductivity (s/m)		3.49×10^7	2.46×10^7	1.49×10^7	1.38×10^7
Bending (angle180, R5)		50000	50000	50000	30000

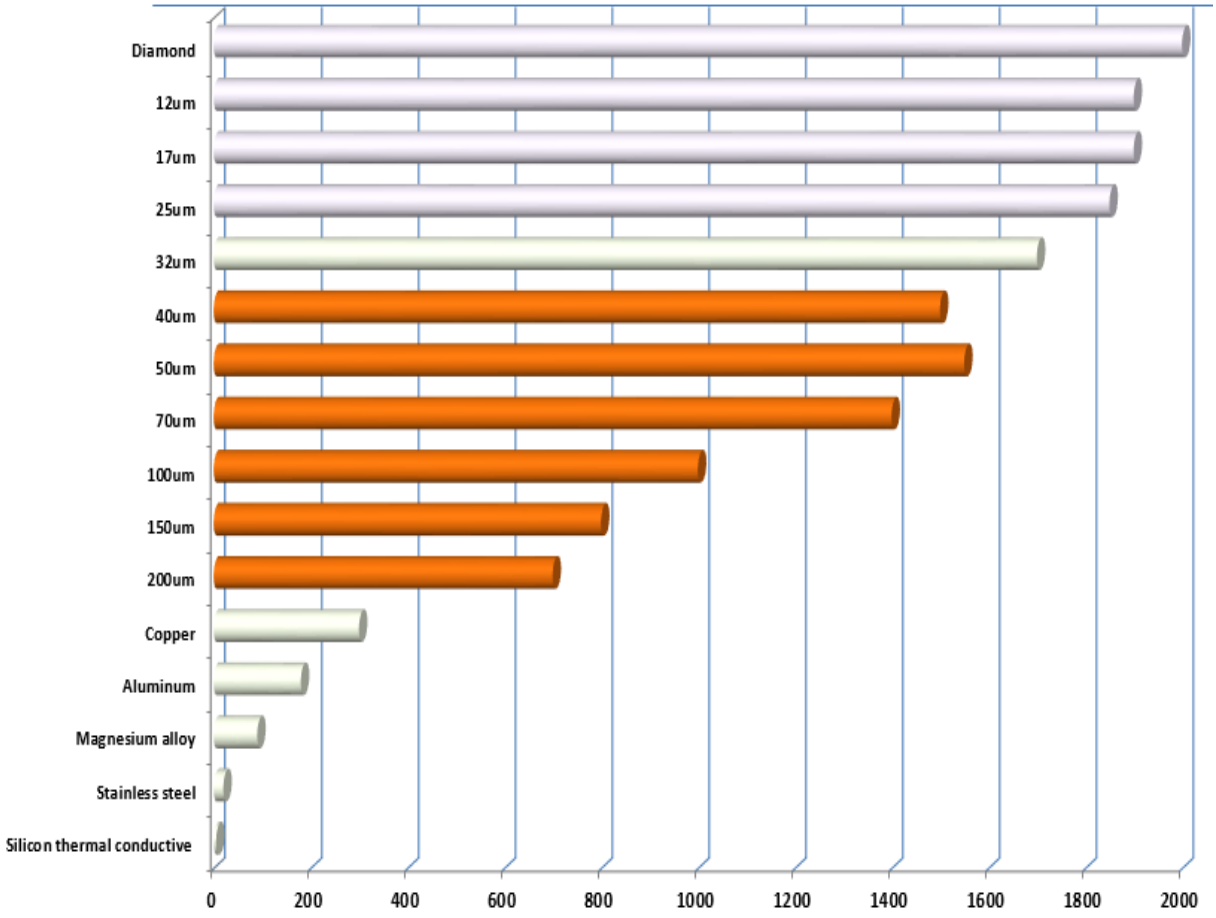
Remark:
Above Thermal conductivity was tested by third-party testing organization (Netzsch, Germany) according to the laser scattering.
Heat-resistance temperature is the graphite sheet excluding PET film.

● Product Technical Parameters - 2

Item No.		DSN5050 50um	DSN5070 70um	DSN5080 80um	DSN5100 100um
Thickness		50±5	70±7	80±8	100±10
Thermal conductivity	X-Y axis (w/m.k)	1200~1400	1100~1300	1000~1200	900~1100
	Z axis (w/m.k)	10~15	15~20	15~20	15~20
In-plane thermal diffusivity (mm^2/s)		780~920	760~900	730~880	700~780
Density (g/cm^3)		1.80±0.1	1.70±0.1	1.60±0.1	1.50±0.1
Heat capacity (J/g/K)		0.85±0.01	0.85±0.01	0.85±0.01	0.87±0.01
Conductivity (s/m)		---	7.43×10^6	---	5.41×10^6
Operation temperature (℃)		-40~400	-40~400	-40~400	-40~400
Bending (angle180, R5)		20000	20000	20000	20000

Remark:
Above Thermal conductivity test by third-party testing organization (Netzsch, Germany) according to the laser scattering.
Heat-resistance temperature is bare graphite sheet only excluding PET film.

● Product Thermal Performance Comparison



Product Thermal Performance Comparison W/(m·K)

● Crystal Structure