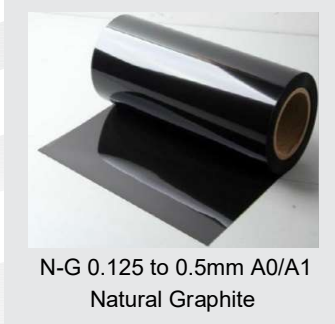


N-G 0.125 to 0.5mm A0/A1 – Natural Graphite

DATASHEET



N-G 0.125 to 0.5mm A0/A1
Natural Graphite

FEATURES

- High efficiency heat transfer: Thermal conductivity 300W/mK: Flexible diaphragm, conversion into any shape (minimum hole size 1.0mm diameter).
- Light weight: density is 1.5-2.1g/cm³ (between 1/3-3/4 of aluminum and equivalent to 1/5-1/4 of copper).
- Low resistance: can be used for electromagnetic shielding.
- Adhesive option available

APPLICATIONS

- Communication equipment and peripheral equipment;
- Computers, Tablet Computers, Smart phones, Intelligent terminals, High power LED applications etc.

PROPERTIES	TOLERANCE	UNIT	NATURAL GRAPHITE (A0)
Thickness	±10%	mm	0.125 to 0.500
		inch	0.005 to 0.020
Thermal Conductivity (X, Y axis)	-	W/mK	300
Thermal Conductivity (Z axis)	-	W/mK	5
Thermal Diffusion	-	m ² /s	2.04
Hardness	±10%	Shore A	80
Density	-	g/cm ³	1.8
Specific Heat Capacity (50 °C)	-	J/kg.K	0.82
Working Temperature	-	°C	-40 to 400
Bend Test (R5/180°)	-	times	>1000
Tensile Strength	-	MPa	4.9
Environmental Suitability	-	-	Halogen Free ROHS/REACH
Flammability Rating	-	UL94	UL94 V0

Note:

1. Customised shapes are available;
2. The above performance data is tested in an environment of 70% humidity, temperature 25°C.
3. This data is intended for reference purposes only. It is recommended that the material is tested to fully evaluate its performance ensuring it is fit for purpose.
4. Use of an adhesive (A1) may affect thermal conductivity stated above.