

Nano Heat Spreader – NSP-S



Thermal Radiation Layer
Thermal Conductive Adhesive Layer
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Features and Benefits

- High Thermal Conductivity
- Thermal Conductivity Adhesive Layer
- High performance Heat spreader
- Excellent Radiation Effect
- Heat Dissipation Effect

Applications

- Display (LED, OLED etc...)
- Tablet PC, Notebook, Router
- Smart Phone - LED Applications
- Set Top Box
- Telecommunication Equipment

The Nanospreader material is ideal for heat spreading. By its unique design it not only conducts heat by contact with the relevant hot components but due to thermal radiation layer it also absorbs and spreads any radiated heat. The material is highly flexible; electrically insulated; easier to handle than natural or artificial graphite; and available in a wide range of thickness 70~130µm. It is also lower costing than natural and artificial graphite

Can be supplied in cut sheet (130µm thickness) and rolls for mass production. die cutting to customers drawing is also possible.

Item	Unit	Specification	Test Method
Colour		Black	Visual
Thickness	µm	70~130	Mitsutoyo
Thermal Conductivity - Horizontal	W/Mk	150	Laser Flash
Thermal Conductivity - Vertical	W/Mk	1	Laser Flash
Emissivity	-	> 0.9	KFIA-FI-1005
Heat Capacity	J/g K	1.5	-
Breakdown Voltage	kV	2.6	ASTM D149
Volume Resistivity	Ω·cm	6.2 x 10 ¹⁴	KS M 3015
Adhesive Strength 180° Peel Test	g/10mm	>900 after 1 hr	KS T 1028
Halogen	-	Not Detected	-
RoHS	-	Not Detected	-