TECHNICAL DATA SHEET

PRODUCT: Graphene based Heat Spreader - AT1500-80

Graphene CAS# 7782-42-5

DESCRIPTION:

Graphene based Heat Spreader thickness of 80 µm

PRODUCT STRUCTURE:

TECHNICAL DATA:

Thermal Conductivity: 1,200 - 1,500 W/mK (In-plane); 3 - 5 W/mK (Through-plane)

Thermal Diffusivity: > 700 mm^2/s

Specific Heat Capacity: 0.85 J/gK

Thickness: 80 ± 5 µm

Width x Length: 23 x 23 cm, 12 x 26 cm, customizable

Density: 2.0 ± 0.2 g/cm^3

Electrical Conductivity: > 5,000 S/cm (in-plane)

Surface Resistance: < 0.1 Ω/□

Tensile Strength: > 30 MPa

Operating Temperature: -40 to 400 in air °C

RoHS Compiant: Yes

Halogen Free: Yes

Storage: Store at room temperature (< 50°C) with low humidity

APPLICATIONS:

Used in computer heat conduction and cooling, electronic devices, large screen display, LED lighting, and an needs for thermal management products.

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