



TECHNICAL DATA SHEET

PRODUCT: Graphene based Heat Spreader - AT1500-50

Graphene CAS# 7782-42-5

DESCRIPTION:

Graphene based Heat Spreader thickness of 50 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: 50 \pm 5 μm

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

Density: 2.0 \pm 0.2 g/cm^3

Electrical Conductivity: > 8,000 S/cm (in-plane)

Surface Resistance: < 0.1 Ω/\square

Tensile Strength: > 30 MPa

Operating Temperature: -40 to 400 in air $^{\circ}\text{C}$

RoHS Compliant: Yes

Halogen Free: Yes

Storage: Store at room temperature (< 50 $^{\circ}\text{C}$) 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.

Global Graphene Group, Inc. (G³) believes this information to be accurate as of the publication date. G³ assumes no liability for the information in this technical data sheet. G³ encourages its customers to review the manufacturing processes and applications for their products from the standpoint of human health and environmental quality to ensure that this material is not utilized in ways for which it is not intended or tested. No warranties on any of the specifications are given. Product literature and material data sheets should be consulted prior to use.

Please contact Global Graphene Group for the most current technical information.

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