

Graphene Assembled Film

Description:

Graphene assembled Film (GF) is an extremely light weighted and ultra-flexible material up a few hundreds in thicknesses. The outcome film possesses highly crystalline structure and features an anisotropic and overall high thermal conductance. It demonstrates unique functions such as eliminating hot spots, shielding components and reducing skin temperature of electronics devices. It is a remarkable lateral heat spreader for thermal management especially in limited space.

Features:

- Excellent thermal conductivity (4 times as high as copper)
- Lightweight (1/45 to 1/4 of copper)
- High tensile strength High electrical conductivity
- Customizable thickness (20µm-300µm)
- Ultra-flexible and conformable (Easy to cut)
- Excellent reliability
- RoHS compliant

Model	Thermal conductivity W/m K	Thickness (μm)	Density (g/cm3)	Bending durabil- ity R5/180°	Specific heat (J/gK)
GF-40	≥1500±5%	40±2%	2.1±0.1	≥10000	0.8±10%
GF-80	≥1500±5%	80±2%	2.1±0.1	≥10000	0.8±10%
GF-100	≥1500±5%	100±3%	2.1±0.1	≥10000	0.8±10%
GF-150	≥1300±5%	150±5%	2.1±0.1	≥5000	0.8±10%
GF-200	≥1100±5%	200±5%	2.1±0.1	≥5000	0.8±10%
GF-300	≥900±5%	300±5%	2.1±0.1	≥5000	0.8±10%

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