

VieTape GP4200

SYNTHETIC GRAPHITE

DESCRIPTION

VieTape GP4200 synthetic graphite is an extremely light and flexible material synthesized from polymer precursor through high temperature heat treatment process. Derived from the crystal structure of graphite, VieTape GP4200 graphite features an anisotropic and overall high thermal conductance. It possesses unique functions such as eliminating hot spots, shielding components and reducing skin temperature of electronic devices. It is an ideal heat spreader for thermal management in limited space. VieTape GP4200 can be supplied in rolls or die-cut form and can be laminated with plastics, foams and PSA.

APPLICATIONS

- Consumer electronics
- Optical communication equipments.

TYPICAL PERFORMANCE PROPERTIES

Properties	VieTape GP4200	Test method
Color	Dark Grey	Visual
Thermal resistance @1000psi; (in ² °C/W)	0.032 ± 0.02	ASTM D5470
Thermal conductivity (W/mK) X,Y axis	>300	ASTM D5470
Thermal conductivity (W/mK) Z axis	10 - 15	ASTM D5470
Thickness (mm)	0.200 ± 0.025	ASTM D374
Density (g/cm ³)	0.4 ± 0.1	ASTM D2638 Modified
Electrical Conductivity (S/m)	6 * 10 ⁴	ASTM C611
Working Temperature (°C)	-55 to 400	-
Repeat Bending @ 180 °, RS(cycle)	5000	-

SHELF LIFE AND STORAGE

24 months from date of manufacture when stored at 10 - 30°C and 40 - 50% relative humidity. Avoid extrusion and exposure to the sun.

The above values are sample observed values, we do not guarantee the actual performance due to the different of application method, bonding design, bonding substrate.. We highly recommend customer to test in the real part

Issue date: September 2022

VIETAPE MATERIAL TECHNOLOGY CO.,LTD

