

VANOC Synthetic Graphite

Version TDS.21-655-0200 V.B.0

Description

200um Graphite of Jones VANOC synthetic graphite series is designed for use as thermal interface material. Comparing to traditional thermal conductive grease, phase change materials and thermal conductive pad, the synthetic graphite films have a much higher thermal conductivity through thickness, stable quality, no ageing problem and a much lower density. The films are supplied in sheets, rolls or die-cut form and can be laminated with plastics, foams and adhesives.



Benefits

- Anisotropic and over all high thermal conductivity
- High thermal stability
- Lightweight
- Flexible and conformable
- RoHS compliant

Applications

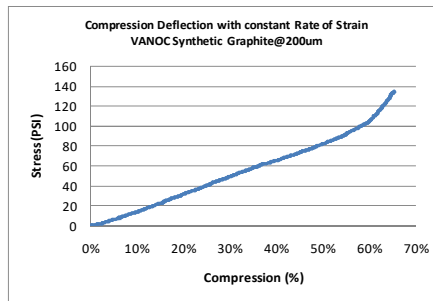
- Base Stations
- Consumer electronics
- Optical communication equipments

Typical Properties

Properties	21-655-0200	Test Method
Thermal	Thermal Resistance (in ² C/W) @100psi	0.032±0.02
	Continuous Working Temperature (°C)	-55~400
Physical	Color	Dark Grey
	Thickness (mm)	0.200±0.025
	Density (g/cm ³)	0.4±0.1
Electrical	Electrical Conductivity (S/m)	6X10 ⁴
Mechanical	Repeat Bending@ 180°, R5 (cycle)	5000

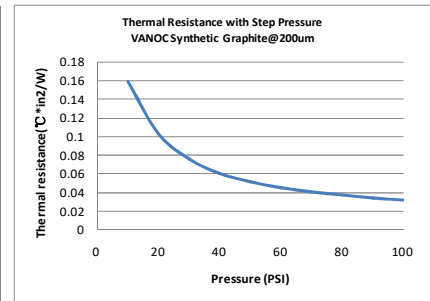
*From the tests data before 20160310.

Compression Deflection



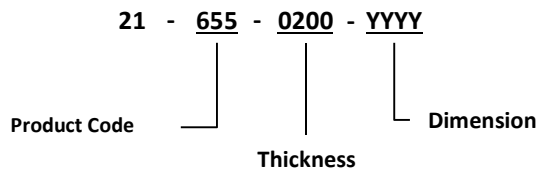
VANOC Synthetic Graphite 200um thick;
1 inch² test sample;
Rate of strain = 0.25 mm/min

Thermal Resistance



VANOC Synthetic Graphite 200um thick;
1 inch² test sample;
Pressure step = 10PSI

Order Information



Disclaimers

- The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the issuing date of this TDS. When using our products, no matter what type of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this TDS are subject to change without prior notice.
- Do not use the products beyond the specifications described in this TDS. This TDS explains the typical performance of the products as individual component. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.

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