Synthetic Graphite
21-655-0070 Thermal Interface Material

FEATURES & BENEFITS

- Anisotropic and overall high thermal conductivity
- High thermal stability
- Light weight
- Flexible and conformable
- RoHS compliant

JONES 21-655-0070 series synthetic graphite film is an extremely light and flexible material synthesized from polymer precursor by a high temperature heat treatment process. Derived from the crystal structure of graphite, the synthetic 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. It can also function as a thermal interface material for applications requiring low contact resistance and high thermal conductivity.

21-655-0070 series of JONES 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 thru-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.

APPLICATIONS

- Power modules such as IGBT, RF devices
- Chip on Board LED devices
- Telecommunications, CPU/GPU thermal interface
- Motor drive
- Power supply modules, rectifiers and chargers

TYPICAL PROPERTIES

Properties		21-655-0070	Test Method
Thermal	Thermal Resistance (in2°C/W) @100psi	0.065±0.02	ASTM D5470
Physical	Color	Dark Grey	Visual
	Thickness (mm)	0.07±0.01	ASTM D374
	Density (g/cm^3)	0.85±0.15	ASTM D2638 Modified
	Continuous Working Temperature (°C)	-55~400	-
Electrical	Electrical Conductivity (S/m)	0.9X10^5	ASTM C611
Mechanial	Repeat Bending@ 180°, R5 (cycle)	10000	-

*From the tests data before 20151223

PART NUMBER SYSTEM

21 - 655 - 0070 - XXXX
①　②　③

① 665-Product Code
② 0070-Thickness Index
③ XXXX-Dimension

ORDERING INFORMATION

Standard size

310mm X 210mm

HANDLING PRECAUTIONS

FOR SAFE HANDLING INFORMATION OF THIS PRODUCT, PLEASE CONTACT WITH YOUR JONES REPRESENTATIVE FOR THE SAFETY DATA SHEET (SDS).

LIMITED WARRANTY INFORMATION

The information provided in this Technical Data Sheet including the recommendations for use and applicaiton of the product are based on our knowledge and experience of the product as at the data of this TDS. Jones Corp is not, therefore, liable for the suitability of any Jones Corp products for any specific or general uses. Jones Corp shall not be liable for incidental or consequential damages of any kind.

FOR MORE INFORMATION

About our high performance materials, solutions and capabilities, please visit our website:

http://www.jones-corp.com

Disclaimer

- 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.
- The product provided in this TDS compliance with HSF.

JONES TECH PLC
3 Dong Huan Zhong Road, BDA,Beijing 100176 China
TEL: +86 10 6786 2636 FAX: +86 10 67860291
E-mail: sales@jones-corp.com