

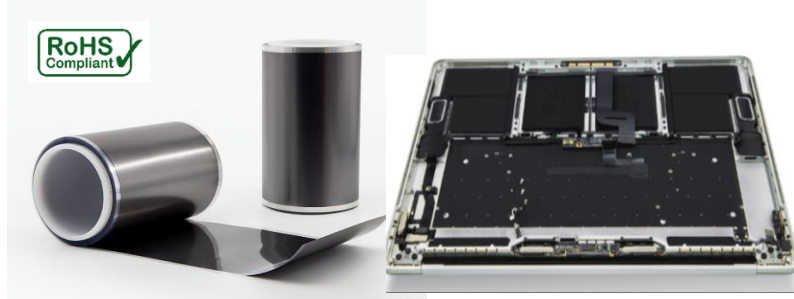


# Synthetic Graphite

## 21-670-0017 PA

### FEATURES & BENEFITS

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



### APPLICATIONS

- Smart phone
- Notebook
- Ultrabook
- Tablet
- Other consumer electronics
- Optical communication equipments

JONES 21-670-0017PA 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, JONES 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.

JONES 21-670-0017PA synthetic graphite is able to be supplied in rolls or die-cut form and can be laminated with plastics, foams and PSA.

### TYPICAL PROPERTIES

Properties		21-670-0017-PA	Test Method
Thermal	Thermal Conductivity In-plane (W/m-K)	$\geq 1500$	Thermal Wave
	Thermal Conductivity in Z Direction (W/m-K)	5~10	Thermal Wave
	Continuous Working Temperature (°C)	-55~400	-
Physical	Color	Dark Grey	Visual
	Thickness (mm)	0.017±0.003	ASTM D374
	Density (g/cm <sup>3</sup> )	2.1±0.1	ASTM D2638 Modified
Electrical	Electrical Conductivity (S/m)	4X10 <sup>5</sup>	ASTM C611
Mechanical	Repeat Bending@ 180°, R5 (cycle)	20000	-

\*From the tests data before 20211230.



## PART NUMBER SYSTEM

**21 - 670 - 0017 - AB - YYYY**

①

②

③

④

⑤

① **21**-Product Code

② **670** - Heat Spreader Graphite

③ **0017**- Graphite Thickness

④ **AB**- Thermal performance class

(PA=Ultra-high Performance;PB=Medium-high Performance;PC=Ordinary Performance)

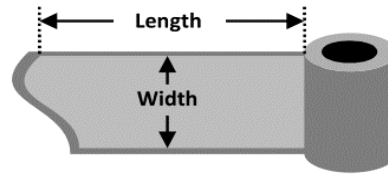
⑤ **YYYY**-Dimension



## ORDERING INFORMATION

### Continous Graphite Film

Part Number	Width (mm)	Length (m)
21-670-0017-PA-W100	100	200Max.
21-670-0017-PA-W130	130	200Max.
21-670-0017-PA-W150	150	200Max.
21-670-0017-PA-W156	156	200Max.



### 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>

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- 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.

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