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TECHNICAL DATA SHEET

# Fiber Thermal Interface (FTI)

July 2022

## ABOUT KULR TECHNOLOGY

KULR'S disruptive thermal management technologies strive to fulfill an addressable \$24 billion thermal management systems market. KULR's integrated design approach offers comprehensive solutions in thermal interface materials, lightweight heat exchangers, and protection against lithium-ion battery thermal propagation. Our high-performance solutions can be designed to fit almost any power or electronic configuration, including extremely demanding spaces or for applications where size and weight restrictions are a concern.

## PRODUCT DESCRIPTION

KULR Fiber Thermal Interface (FTI) is a highly compliant, dry, residue free, electrically, and thermally conductive, non-silicone z axis-oriented carbon fiber thermal interface material with great thermal performance and high compliancy. The soft interface material conforms to variable topography, resulting in minimal stress on the mating surface components. The highly precise z axis-oriented carbon fibers providing an in plane thermal conductivity of up to 30 W/mK.

## FEATURES AND BENIFITS

- Highly compliant: Flexible and bendable
- Electrically conductive
- Silicone free
- Dry, residue free, no bleed
- Sustainable, reusable, and repeatable

## TYPICAL APPLICATIONS

FTI is used a TIM2 material between a heat generating component and a heat dissipating component where high reliability and performance is needed.

## AVAILABILITY

Please contact KULR Technology Group for additional information.



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Property	Value
Construction	Oriented Carbon Fiber Sheet
Color	Black
Thickness	<1mm to >3mm
Thermal Conductivity	Up to 30 W/mK
Operating Temperature	-40°C to 120°C
Dielectric Breakdown Voltage	Conducting
CTE	5-15ppm/°C
Maximum Compression	50%

## DISCLAIMER

Data on this Technical Data Sheet (TDS) are typical values and for reference only. The information provided in this TDS, including but not limited to the recommendations for use and application of the product, are based on our knowledge and experience of the product. The product can have a variety of different applications, as well as differing working conditions and environments that are beyond our control. Factors or events that could cause actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We cannot guarantee future results, performance or achievements. Furthermore, no representations or warranties are made as to the accuracy or reasonableness of any assumptions on which the data or information is based.