



FIBER THERMAL INTERFACE (FTI) FAQ

KULR Technology Group Inc.
Tel.: +1 858 866 8478
www.kulrtechnology.com

Is the material electrically conducting in the x-y direction?

FTI is electrically conductive in the XY directions. The electrical conductivity depends on the fiber packing fraction.

What is the minimum/maximum x-y sizes?

Minimum size depends on the diameter size. Maximum size would be 12" by 12".

What is the minimum/maximum thickness?

The minimum thickness would be 0.3mm, while the maximum thickness would be 5cm.

What is the minimum/maximum pressure requirements?

The minimum pressure requirements would be .1psi and maximum would be 200psi.

How many removable insertion cycles can FTI achieve?

Depends on application and gap compression, please ask your KULR representative for more information.

Can FTI interface be used as a sliding interface?

Yes, it can be used as a sliding interface.

What is the percentage compressibility?

This depends on volumetric fiber fraction, thickness and if fiber are canted. Please ask your KULR representative for more information.

Can FTI handle vibrations?

Yes, it can handle vibrations.

What is the operating temperature range?

Operating temperature (for FTI) is determined by matrix and adhesive.



How many thermal cycles can FTI withstand? If so, at what temperatures?

Fibers don't degrade below 300°C (No oxidation). The adhesive is the part that could degrade.

Can FTI support applications with CTE mismatch?

Yes, FTI can support CTE mismatch.

Is there any surfaces FTI cannot be used with (i.e., silicon)?

No, FTI can be used with any surface.

Can FTI be used in conjunction with thermal grease?

Yes, FTI can be used with thermal grease.

Does FTI have anti-static properties?

Yes, it is electrically conductive.

Does FTI have EMI shielding properties?

Yes, it does have EMI shielding properties.

Does FTI need a burning process before use?

No, it does not need a burning process before use.

Will carbon fibers break off from normal use?

They can, but encapsulation of the product will prevent generation of debris.

Can broken carbon fibers short circuit my application?

Carbon fibers will most likely not short circuit your application.

Do I need to replace FTI after rework?

This will depend on the application. If the FTI doesn't have an adhesive side, then rework might be needed.

Is FTI bendable and can be made tacky?

Yes, FTI is a bendable product and can also be made tacky.

Can FTI be di-cut to complex form factors? Can it also conform to surface irregularities?

Yes, FTI can be di-cut. It will also be able to conform to any types of surfaces.