



**TS-TIR<sup>®</sup>700-25 series** is a high-performance carbon fiber thermal pad that combines thermally conductive carbon fibers with a polymer-based silicone matrix. Utilizing advanced processing techniques to precisely align thermal pathways, it delivers exceptional thermal conductivity, effectively reducing interfacial thermal resistance and enhancing heat dissipation efficiency. With its ultra-thin, lightweight, and mechanically flexible properties, it is ideal for use in 5G devices, high-performance chips, and other high heat flux applications.

### Features

- » Good thermal conductivity 25 W/mK
- » Ultra-low thermal resistance
- » Works under low pressure
- » Non-insulating material
- » Non-adhesive surface

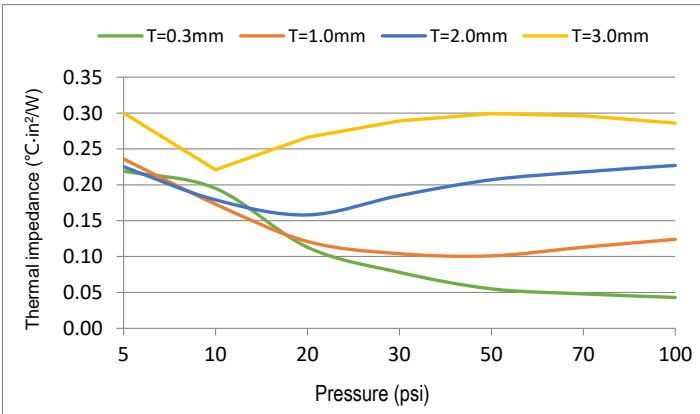
### Application

- » Between chips and heat dissipation modules
- » 5G communication equipment
- » Optoelectronics industry
- » Wearable devices

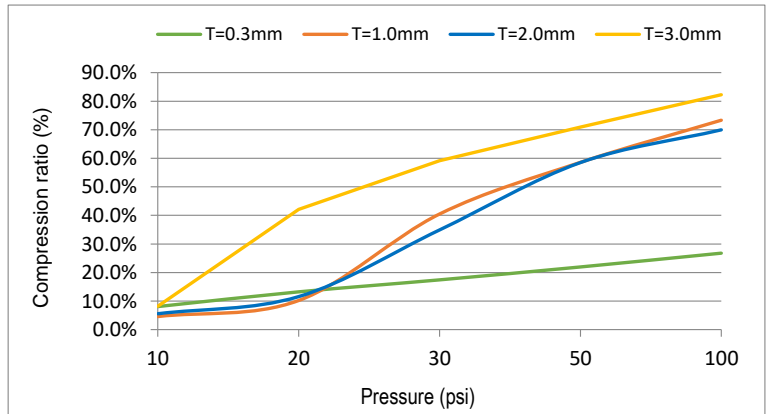
Typical Properties of TS-TIR<sup>®</sup>700-25 Series

Property	Value		Test method
Color	Gray		Visual
Construction	Carbon Fiber Filled Silicone		-
Thickness range	0.01"~0.02" (0.3~0.5mm)	0.04"~0.20" (1.0~5.0mm)	ASTM D374
Hardness (Shore OO)	85±5	60±10	ASTM D2240
Density (g/cc)	2.9		ASTM D792
Recommended Operating Temp (°C)	-40~200		Ziitek Test Method
Thermal Conductivity (W/mK)	25		ASTM D5470
Specific Heat Capacity (J/g·°C)	0.75		ASTM E1269 @25°C
Flame Rating	V-0		UL94 Equivalent
RoHS	Compliant		IEC62321

### Thermal Impedance



### Compression Ratio



### Product Specification

Standard Thickness: 0.01" (0.3 mm), 0.02" (0.5 mm), 0.04" (1.0 mm), 0.06" (1.5 mm), 0.08" (2.0 mm), 0.10" (2.5 mm), 0.12" (3.0 mm)  
Standard Size: 1.97" × 1.97" (50.0 mm × 50.0 mm)

TS-TIR<sup>®</sup>700-25 Series products can be die-cut into various shapes. Contact us for custom thicknesses or larger sizes.

### Global solutions: Local support

China: +86-769-38801208  
Taiwan: +886-2-2277-1007  
Canada: +001-604-2998559  
Vietnam: +84-396852859

service@ziitek.com  
www.ziitek.com

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