



TS-TIR®700-09 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

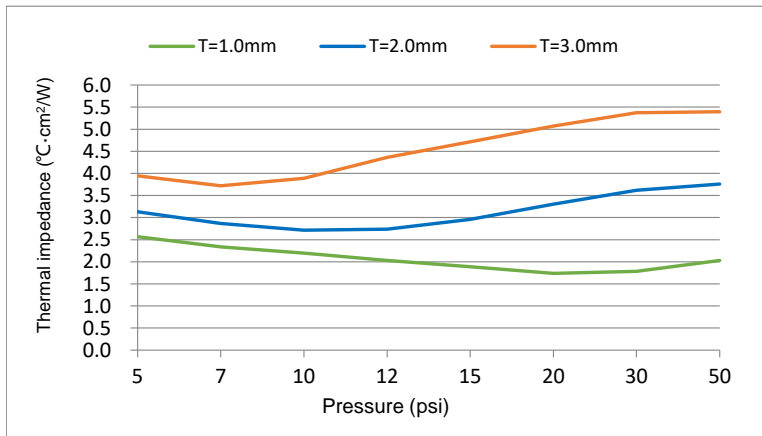
- » Good thermal conductivity 9 W/mK
- » Ultra-low thermal resistance
- » Works under low pressure.
- » Non-insulating material
- » Non-adhesive surface

Application

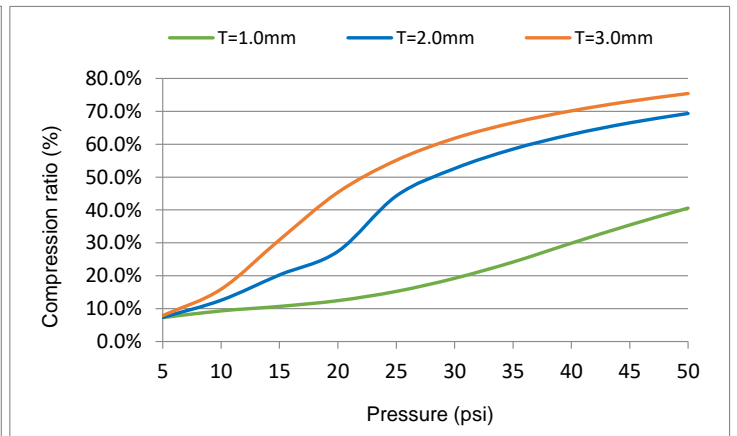
- » Between chips and heat dissipation modules
- » 5G communication equipment
- » Optoelectronics industry
- » Wearable devices

Typical Properties of TIR®700-09 Series		
Property	Value	Test method
Color	Gray	Visual
Construction	Carbon Fiber Filled Silicone	-
Thickness range	0.04" ~0.20" (1.0~5.0mm)	ASTM D374
Hardness (Shore OO)	55±10	ASTM D2240
Density (g/cc)	2.1	ASTM D792
Recommended Operating Temp (°C)	-40~200	Ziitek Test Method
Thermal Conductivity (W/mK)	9.0	ASTM D5470
Specific Heat Capacity (J/g.°C)	0.93	ASTM E1269 @25°C
Flame Rating	V-0	UL94 Equivalent
RoHS	Compliant	IEC62321

Thermal Impedance



Compression Ratio



Product Specification

Standard Thickness: 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)

TIR®700-09 Series products can be die-cut into various shapes. Contact us for custom thicknesses or larger sizes.

Global solutions: Local support

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