TIR®700-25 Series
Carbon Fiber Thermal Pad



TIR®700-25 Series is a high-performance carbon fiber thermal conductive pad. It combines high thermal conductivity carbon fiber with polymer silicone material, and adopts advanced technology to vertically align the carbon fibers, thereby achieving excellent thermal conductivity, effectively reducing interfacial thermal resistance and improving heat dissipation efficiency. Featuring ultra-thinness, light weight and mechanical flexibility, it is suitable for applications requiring high heat dissipation performance as well as good mechanical strength of the material.

Features

- Excellent thermal conductivity
- High temperature resistance
- Good flexibility
- No surface stickiness
- Good mechanical strength and durability

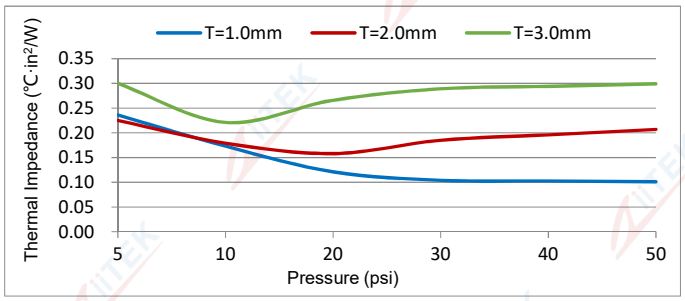
Applications

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

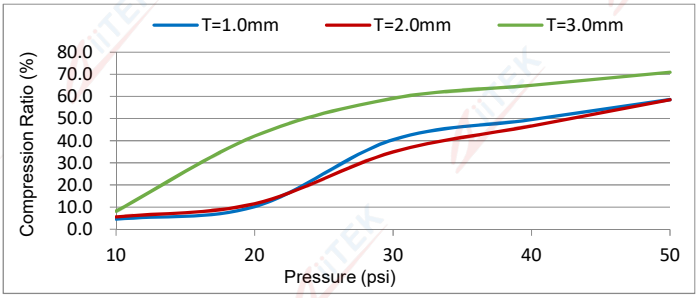
Typical Properties of TIR®700-25 Series

Property	Value		Test Method
Color	Gray		Visual
Composition	Carbon fiber filled silicone		ZKTM J024
Thickness Range (inch/mm)	0.012~0.020 0.30~0.50	0.030~0.200 0.75~5.00	ASTM D374
Hardness (Shore OO)	85±5	60±10	ASTM D2240
Density (g/cm^3)	2.9		ASTM D792
Recommended Operating Temperature(°C)	-40~200		ZKTM J025
Thermal Conductivity (W/m·K)	25.0		ASTM D5470
Specific Heat Capacity (J/g·°C) @25°C	0.75		ASTM E1269
Flame Rating	V-0		Equivalent to UL94

Thermal Impedance



Compression Ratio



Product Identifier

TIR7 00 - 25

- Product Series
- Thickness: 12mils ~ 200mils
- Thermal Conductivity: 25.0 W/m·K

Product Specifications

Standard Thickness: 0.012"(0.30 mm)~ 0.200"(5.00 mm)
Standard Size: 5" × 6" (127 mm × 152.4 mm)
The TIR® 700-25 series products can be molded into different shapes for supply. If you need different thicknesses and larger sizes or more information on thermal conductive materials, please contact our company.

Note: This product is conductive and not an insulating material.

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