



TIR[®]700-09 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

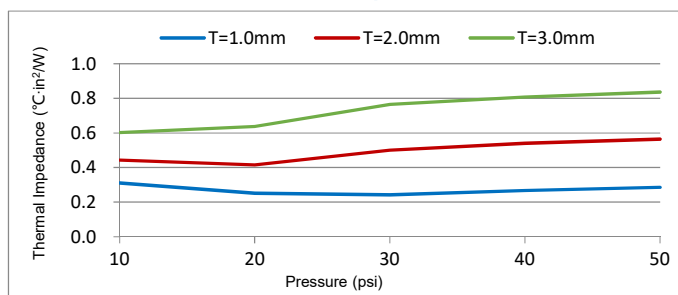
- » High thermal conductivity
- » High temperature resistance
- » Good flexibility
- » No surface stickiness
- » Good mechanical strength and durability

Applications

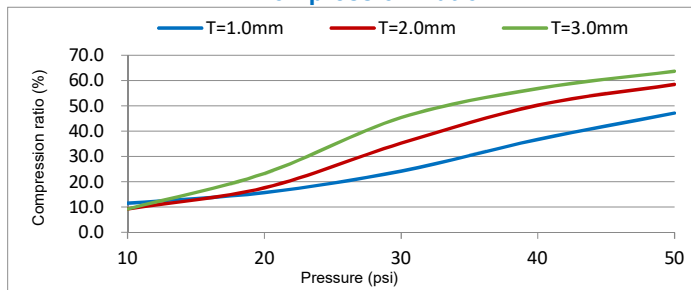
- » LED high-power lighting
- » Electronic device cooling
- » Communication base stations and servers
- » Batteries and electronic control systems of electric vehicles

Typical Properties of TIR [®] 700-09 Series			
Property	Value		Test Method
Color	Gray		Visual
Construction	Carbon fiber filled silicone		-
Thickness Range (inch/mm)	0.030 0.75	0.040~0.200 1.00~5.00	ASTM D374
Hardness (Shore OO)	65±10	65±10	ASTM D2240
Density (g/cm ³)	2.1		ASTM D792
Recommended Operating Temperature(°C)	-40~200		-
Thermal Conductivity (W/m·K)	9.0		ASTM D5470
Specific Heat Capacity (J/g·°C) @25°C	0.93		ASTM E1269
Flame Rating	V-0		UL94

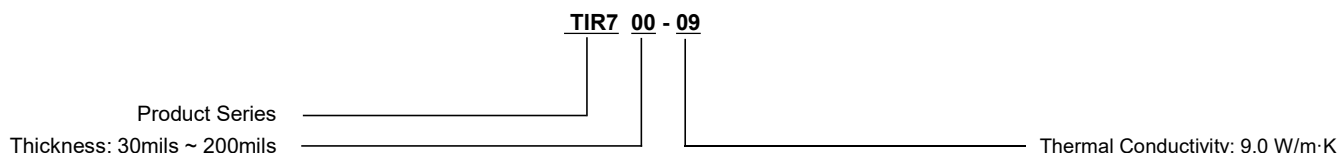
Thermal Impedance



Compression Ratio



Product Identifier



Product Specifications

Standard Thickness: 0.030"(0.75 mm)~ 0.200"(5.00 mm) with increments of 0.010" (0.25 mm).
Standard Size: 1.97" × 1.97" (50 mm × 50 mm)

The TIR[®] 700-09 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.

Global solutions: Local support

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TIR700-09-0326