



TIR®700-35 Series is a high-efficiency carbon fiber thermal pad that combines high thermal conductivity carbon fiber with polymer silicone material. Using advanced technology, the carbon fibers are vertically aligned to achieve excellent heat transfer performance, effectively reducing interface thermal resistance and improving cooling efficiency. It features ultra-thin, lightweight design and mechanical flexibility, making it suitable for applications that require high heat dissipation while demanding good mechanical strength of the material.

Features

- » High thermal conductivity
- » Excellent mechanical properties
- » Outstanding weather stability
- » Safe and reliable

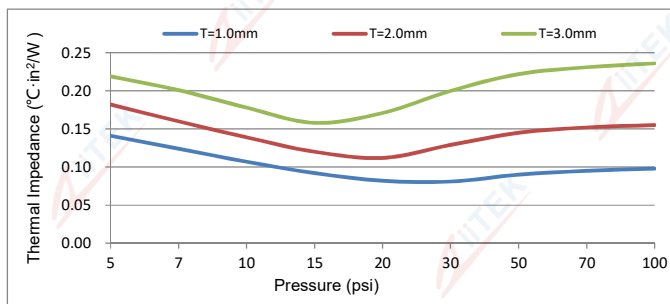
Applications

- » CPUs for laptops and desktops
- » Aerospace and satellite electronic equipment
- » Thermal conduction between the cells inside the power battery pack and the heat dissipation plate and casing
- » Variable-frequency drive, servo motors, and power modules
- » Thermal conduction for automotive electronic components

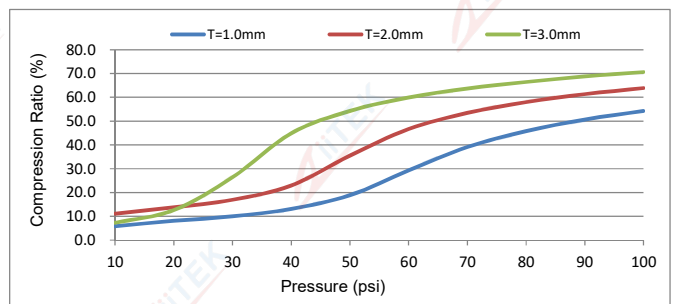
Typical Properties of TIR®700-35 Series

Property	Value	Test Method
Color	Gray	Visual
Composition	Carbon fiber filled silicone rubber	ZKTM J024
Thickness Range (inch/mm)	0.012~0.200 0.30~5.00	ASTM D374
Hardness (Shore OO)	65±10	ASTM D2240
Density (g/cm ³)	2.8	ASTM D792
Recommended Operating Temperature (°C)	-40 ~ 200	ZKTM J025
Thermal Conductivity (W/m·K)	35.0	ASTM D5470
Specific Heat Capacity (J/g·°C) @25°C	0.77	ASTM E1269
Flame Rating	V-0	Equivalent to UL94

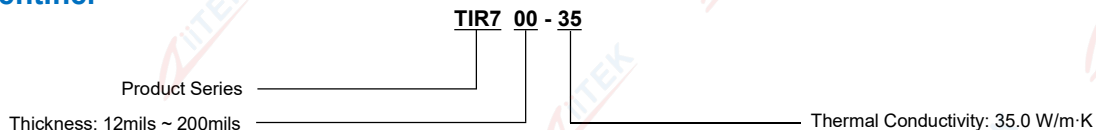
Thermal Impedance



Compression Ratio



Product Identifier



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®700-35 series is available in custom shapes and various forms. For other thicknesses or more information, please contact us.

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

Global solutions: Local support

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TIR700-35-0926