



TIR®300L-A1 series is a graphite-enhanced composite thermal interface material engineered for high thermal conductivity and reliable heat dissipation. Reinforced with an aluminum foil layer, it maintains structural integrity throughout handling and application. The material conforms well to a variety of surfaces, enabling efficient thermal contact and ease of assembly. It is ideally suited for use between power transistors and heat sinks, as well as in large-area thermal interface applications.

Advantages

- » Excellent thermal impedance
- » Replaces traditional thermal grease
- » High reliability
- » Easy to apply to surfaces

Applications

- » Between transistors and heat sinks
- » Between mechanical structures
- » Between heat sinks and external casings

Typical Properties of TIR®300L-A1 series

Property	Value	Test method
Color	Black	Visual
Reinforcement Carrier	Aluminum	-
Thickness (mm)	0.15	ASTM D374
Density (g/cc)	1.4	ASTM D297
Hardness (Shore A)	90	ASTM D2240
Volume Resistivity (Ohm-cm)	1×10^{-2}	ASTM D257
Continuous Use Temp (°C)	-60~180	Ziitek Test Method
Thermal Conductivity (W/mK)	2.5	ASTM D5470
Thermal Impedance (°C·in ² /W) @30 psi	0.30	ASTM D5470
Thermal Impedance (°C·in ² /W) @50 psi	0.25	ASTM D5470
180° Peel Strength	1.0 N/ 25 mm	ASTM D3330 (Steel, Immediate)

Standard Size:

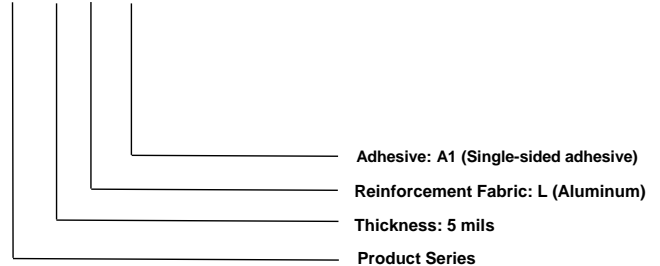
Sheet: 305 mm*305 mm; Roll: 305 mm*75 m.

TIR300L series can be cut and supplied in various shapes and sizes.

For different thicknesses or sizes, please contact our company.

Product Identifier:

TIR3 05 L- A1



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