

TIA[®] 800 Series is filled with good thermal conductivity ceramic particles, featuring excellent thermal conductivity, strong adhesion and electrical insulation. It is suitable for bonding and fixing electronic components to heat sinks or housings, such as LED modules, power devices, communication equipment and other scenarios. The product is solvent-free, pollution-free, easy to construct, and can replace the traditional combination scheme of screw fixation and thermal conductive grease.



Features

- » High bonding strength
- » Good thermal conductivity efficiency
- » Easy to apply and can be die-cut into custom sizes
- » Stable operation over a wide temperature range

Applications

- » LED module
- » Power device
- » Consumer electronics
- » Communication equipment

Typical Properties of TIA[®] 800 Series

Product Name	TIA [®] 802	TIA [®] 804	TIA [®] 806	TIA [®] 808	TIA [®] 810	TIA [®] 812	TIA [®] 815	Test Method
Color	White							Visual
Adhesive Type	Acrylic adhesive							-
Thickness (inch/mm)	0.002 0.05	0.004 0.10	0.006 0.15	0.008 0.20	0.010 0.25	0.012 0.30	0.015 0.38	ASTM D374
Voltage Breakdown (V)	≥600	≥1200	≥1800	≥2500	≥2700	≥3000	≥4000	ASTM D149
Recommended Operating Temperature (°C)	-40 ~ 125							-
Thermal Conductivity (W/m·K)	0.8							ASTM D5470
180°Peel Adhesion (gf/inch) Steel, Immediate	≥1200							ASTM D3330
180°Peel Adhesion (gf/inch) Steel, 24hrs	≥1400							ASTM D3330
Holding Power (H/inch) @25°C	≥48							ASTM D3654
Holding Power (H/inch) @80°C	≥48							ASTM D3654

Product Specifications

Standard Thickness: 0.002"(0.05 mm), 0.004"(0.10 mm), 0.006"(0.15 mm), 0.008"(0.20 mm), 0.010"(0.25 mm), 0.012"(0.30mm), 0.015"(0.38mm)

Standard Size: 16" × 100'(406 mm × 30.48 M)

Reinforcing Carrier: TIA[®]800 Series rolls can be reinforced with glass fiber

The TIA[®] Series can be provided with die-cutting into various shapes. For different thicknesses or more information about thermally conductive materials, please contact our company.

Global solutions:Local support

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