



**TIC®800D series** is a high thermal conductivity and high dielectric constant insulating pad. It consists of a polyimide film substrate coated with a low-melting-point phase change material filled with ceramic blend. At 50 °C, the material surface begins to soften and flow, effectively filling microscopic surface irregularities between the heat sink and the integrated circuit board, thereby reducing thermal resistance and enhancing heat transfer efficiency.

**Features**

- » Highly compliant surface with high thermal conductivity
- » High dielectric strength
- » Low thermal resistance with high voltage isolation
- » Resistant to tears and punctures

**Application**

- » Power semiconductors, MOSFETs, and IGBTs
- » Audio and video components
- » Automotive control devices
- » Electric motor control equipment

Typical Properties of TIC® 800D series		
Property	Value	Test Method
Color	Light Amber	Visual
Composite Thickness	0.004"/0.102 mm	ASTM D374
Kapton® MT Thickness	0.001"/0.025 mm	ASTM D374
Total Thickness	0.005"/0.127 mm	ASTM D374
Tensile Strength (Mpa)	17	ASTM D412
Recommended Use Temp (°C)	-50~130	Ziitek Test Method
Phase Change Softening Temp (°C)	50~60	-
Electrical		
Dielectric Breakdown Voltage (VAC)	5000	ASTM D149
Dielectric Constant @1MHz	1.8	ASTM D150
Volume Resistivity (Ohm·m)	1.0x10 <sup>12</sup>	ASTM D257
Thermal conductivity		
Thermal Conductivity (W/mK)	1.6	ASTM D5470
Thermal Impedance (°C·in²/W) @50psi	0.22	ASTM D5470

**Product Specification**

**Standard Thickness:**

0.005" (0.127 mm). Individual die-cut shapes and custom thickness can be supplied. Please contact us for confirming.

**Standard Sizes:**

10" x 100' (254 mm x 30 m), individual die cut shapes can be supplied.

**Peressure Sensitive Adhesive:**

Not applicable to TIC®800D series products.

**Reinforcement:**

TIC®800D series is reinforced with polyimide film.

**Global solutions:Local support**

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