

## **Thermally Conductive Electrical Insulators**

Thermally Conductive Electrically Insulating materials are excellent for use on power supplies and connectors that require heat transfer while needing to be insulated electrically from components or materials in a very close proximity to each other.

Thermal Properties				
	TEI10			Test Method
Thermal Conductivity, W/m·K	1			ASTM D5470
Thermal Resistance, °C·in²/W	1.52 max	2.35 max	3.45 max	ASIM D3470
Physical Properties				
Color	Gray			Visual
Thickness, in (mm)	0.009 (0.23)	0.012 (0.3)	0.018 (0.45)	ASTM 2240
Density, lb/in³ (g/cm³)	.063 (1.75)			ASTM D792
Hardness, Shore C	50			ASTM D751
Tensile Strength, MPa	425			ASTM D412
Heat Capacity, (g-K)	1			ASTM C351
Operating Temperature, °F (°C)	-58 - 356 (-50 - 180)			-
Electrical Properties				
Volume Resistivity, Ω·cm	3.5×10 <sup>11</sup>			ASTM D257
Dielectric Breakdown Voltage, kV	3.5 min			ASTM D149
Dielectric Constant, MHz	5.5 min			ASTM D150
Regulatory				
Flammability Rating	94 VO			UL94
Shelf Life, months	24	24	24	-



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## **Applications**

- -Power Supplies
- -Connectors
- -Power Semiconductors
- -Audio/Video

## **Benefits**

- -Electrically insulating
- -Low Cost
- -Short lead time
- -Custom shapes
- -Increases product reliability
- -Self tacking
- -UL 94 V-0 Rated
- -Tear resistant
- -High dielectrical constant



THERMALLY CONDUCTIVE ELECTRICAL INSULATORS

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ISO 9001: 2008

