

# TIP1500 & 3500

## Thermal Insulator Pad with High Thermal Conductivity

### BENEFITS AND FEATURES

- High thermal performance
- High breakdown voltage
- Good resistant to tears, cut-throughs and punctures
- Single side PSA available for easy assembly

### OVERVIEW

Honeywell TIP1500 & TIP3500 thermal insulators are designed to provide low thermal impedance and high isolation for high power and high voltage applications. Integrated fiberglass reinforcement protects the pad from tears, cut-throughs and punctures. TIP1500 and TIP3500 are designed to be soft and conformal which provide excellent mating surface for low pressure mounting. TIP1500 only offers 0.19mm and 0.23mm thickness. TIP3500 offers in thicknesses ranging from 0.25mm to 0.50mm.



### TYPICAL APPLICATIONS

- Automotive electronics
- Power conversion equipment
- Power supply equipment
- Motor controllers
- Speaker amplifier
- Power switch

### Storage & Use

Shelf Life 12 months at 0-35°C, <65%RH

Performance		TIP 1500	TIP 3500	Test Method
Color		Pink	Blue	Visual
Thickness (mm)*		0.19, 0.23	0.25-0.50	ASTM D374
Specific Gravity		2.21	2.47	ASTM D792
Hardness (Shore A)		90	80	ASTM D2240
Thermal Conductivity (W/m-K)		1.5	3.5	ASTM D5470
Thermal Impedance	°C-in <sup>2</sup> /W @10psi (Typical Value)	0.91@0.19mm 0.93@0.23mm	0.23	ASTM D5470
	°C-in <sup>2</sup> /W @50psi (Typical Value)	0.54@0.19mm 0.61@0.23mm	0.18	
Breakdown Voltage (Vac)		>6000	>6000	ASTM D149
Dielectric Constant@1MHz		5.50	3.30	ASTM D150
Volume Resistivity (ohm-cm)		1 x 10 <sup>13</sup>	5 x 10 <sup>13</sup>	ASTM D257
Flammability Rating		V-0	V-0	UL94
Operating Temperature (°C)		-60~200	-60~200	HON Internal

\*Thickness tolerance  
 TIP1500: ±0.01mm, (±0.02mm for single side PSA product)  
 TIP3500: ±10%

### Honeywell Electronic Materials

USA: 1-509-252-2102  
 China: 400-840-2233  
 Germany: 49-5137-999-9199  
 Japan: 81-3-6730-7092  
 Korea: 82-2-3483-5076  
 Singapore: 65-6580-3593  
 Taiwan: 886-3-6580300 ext.312  
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