

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 23 ±2°C

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 ² /W @10psi (Typical Value)	0.91@0.19mm 0.93@0.23mm	0.23	ASTM D5470
	°C·in ² /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 ¹³	5 x 10 ¹³	ASTM D257
Flammability Rating		V-0	V-0	UL94

* 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
www.electronicmaterials.com

Although all statements and information contained herein are believed to be accurate and reliable, they are presented without guarantee or warranty of any kind, express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liability for use of the information and results obtained. Statements or suggestions concerning the use of materials and processes are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all toxicity data and safety measures are indicated herein or that other measures may not be required.