

Thermal Gap Pads

Models: TGP1200, TGP1500, TGP3000, TGP5000, TGP6000, TGP8000

BENEFITS AND FEATURES

- High thermal performance
- Ultra-high compressibility for low stress applications
- Excellent surface wetting for low contact resistance
- High reliability
- Electrically insulating

OVERVIEW

Honeywell Thermal Gap Pads (TGP) provide high thermal performance with ease of use across multitude of applications. Its ultra-high compressibility enables low stress and excellent conformity to mating surfaces. It is designed to minimize thermal resistance at interfaces, and maintain excellent performance through reliability testing. Honeywell TGP models are naturally tacky, and require no additional adhesive which could inhibit thermal performance. Products are available in thickness range from 0.5mm to 5.0mm.



TYPICAL APPLICATIONS

- Consumer electronics
- Telecommunications & network servers
- Automotive electronics
- Power devices & modules
- Semiconductors logics & memory

STORAGE & USE

Shelf Life 12 months at 23±2°C

Product Name	TGP1200	TGP1500	TGP3000	TGP5000	TGP6000	TGP8000	Test Method
Color	Blue	Grey	Yellow	Blue	Grey	Grey	Visual
Thickness (mm)*	0.5-5	0.5-5	0.5-5	0.5-5	0.5-5	0.5-5	ASTM D374
Specific Gravity	1.7	1.8	3.1	3.3	3.3	3.4	ASTM D792
Hardness (Shore00)	30	40	40	45	40	30	ASTM D2240
Thermal Conductivity (W/m·K)	1.2	1.5	3.0	5.0	6.0	8.0	ASTM D5470
Thermal Impedance (°C·in ² /W)(1mm@10psi)	1.03	0.94	0.65	0.3	0.25	0.2	ASTM D5470
Dielectric Constant@1MHz	4.5	5.5	6.6	5.0	8.5	8.3	ASTM D150
Volume Resistivity (ohm·cm)	4.0x 10 ¹²	2.0x 10 ¹³	4.8x 10 ¹³	8.0x 10 ¹³	3.8x 10 ¹⁵	6.5x 10 ¹⁵	ASTM D257
Flammability Rating	V-0	V-0	V-0	V-0	V-0	V-0	UL94

* Thickness range: 0.5-5.0mm with 0.25mm incremental
 Thickness Tolerance: >1mm, ±10%
 0.5-1mm, ±0.1mm
 <0.5mm, ±0.05mm
 Please check thickness availability before order

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.