

# TGP5000, 6000 and 8000 Thermal Gap Filler Pad

## 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 TGP series Thermal Gap Filler Pads provide high thermal performance with ease of use across multitude of applications. Its ultra-high compressibility enables low stress and excellent conformity to mate surfaces. It is designed to minimize thermal resistance between interfaces and maintain excellent performance through reliability testing. Thickness ranges from 0.5mm to 5.0mm with 0.25mm incremental is available.

## TYPICAL APPLICATIONS

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

## STORAGE & USE

- Shelf life 12 months at 0-35°C,  
≤65% RH

| Property   | TGP5000                | TGP6000                | TGP8000               | Test Method  |
|--|------------------------|------------------------|-----------------------|--------------|
| Color  | Blue                   | Grey                   | Grey                  | Visual       |
| Thickness(mm)**  | 0.5-5.0                | 0.5-5.0                | 0.5-5.0               | ASTM D374    |
| Density(g/cm <sup>3</sup> )  | 3.4                    | 3.4                    | 3.5                   | ASTM D792    |
| Hardness(shore00)  | 45                     | 40                     | 30                    | ASTM D2240   |
| Thermal Conductivity(W/m-K)  | 5.0                    | 6.0                    | 8.0                   | ASTM D5470   |
| Thermal Impedance(°C-in <sup>2</sup> /W)<br>(1mm@10psi, Typical Value) | 0.23                   | 0.20                   | 0.19                  | ASTM D5470   |
| Dielectric Constant@1MHz   | 7.9                    | 8.1                    | 8.3                   | ASTM D150    |
| Volume Resistivity(ohm-cm)   | 3.0 x 10 <sup>15</sup> | 3.0 x 10 <sup>15</sup> | 3.0x 10 <sup>15</sup> | ASTM D257    |
| Flammability Rating  | V-0                    | V-0                    | V-0                   | UL 94        |
| Operating Temperature (°C)   | -40~200                | -40~150                | -40~125               | HON Internal |

Typical property data values should not be used as specifications

\*\* Thickness range: 0.5-5.0mm with 0.25mm incremental

Thickness Tolerance: >=1.0mm, ±10%

0.5-1.0mm, ±0.1mm

\*A1 versions are available for all grades. A1 means 1 layer of PSA coating on surface of gap pad

## 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

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