

TGP2000PT, 3510PT, 6000PT and 8000PT

Thermal Gap Filler Pad

BENEFITS AND FEATURES

- High thermal performance
- Ultra-soft
- High compressibility
- Excellent gap-filling capability
- Naturally tacky
- Low oil bleeding

OVERVIEW

Honeywell TGP2000PT, TGP3510PT, TGP6000PT and TGP8000PT Thermally Conductive Gap Pads provide high thermal performance and excellent thermal reliability. The material's putty-like design enables excellent gap-filling capability for applications with large dimensional variances. Special surface reinforcement enables easier handling for operators during high volume assembly. The products are naturally tacky and require no additional adhesive to mate to heat source and heat sink. Products are available in thicknesses ranging from 0.5mm to 5.0mm.

TYPICAL APPLICATIONS

- EV battery & charging station
- Automotive electronics
- Power devices & modules
- Telecommunications & network servers

STORAGE & USE

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

Property	TGP2000PT	TGP3510PT	TGP6000PT	TGP8000PT	Test Method
Color	Pink	Green	Grey	Grey	Visual
Thickness (mm) 1*	0.5-5.0	0.5-5.0	0.5-5.0	0.5-5.0	ASTM D374
Density(g/cm³)	2.9	3.2	3.4	3.5	ASTM D792
Carrier^{2*}	Fiberglass: Double sides	Fiberglass: Double sides	Fiberglass: Available on double sides, single side, non-fiberglass	Fiberglass: Available on double sides and single side, non-fiberglass	---
Hardness (Shore00)	10	15	10	10	ASTM D2240
Thermal Conductivity (W/m-K)	2.5	3.5	6.0	8.0	ASTM D5470
Thermal Impedance (°C-in²/W) (1mm@10psi, Typical Value)	0.65	0.45	0.24	0.17	ASTM D5470
Dielectric Constant@1MHz	6.0	6.4	8.1	8.3	ASTM D150
Volume Resistivity (ohm-cm)	1.0x 10 ¹³	4.0x 10 ¹³	3.0x 10 ¹⁵	3.0x 10 ¹⁵	ASTM D257
Flammability Rating	V-0(Equivalent)	V-0(Equivalent)	V-0(Equivalent)	V-0(Equivalent)	UL 94
Operating Temperature (°C)	-40~150	-40~150	-40~150	-40~150	HON Internal

1* Thickness range: 0.5-5.0mm with 0.25mm incremental
Thickness Tolerance: >=1mm, ±10%
0.5-1mm, ±0.1mm

TGP6000PT-00: non-fiberglass;
TGP6000PT-01: single side;
TGP6000PT: double sides;

TGP8000PT-00: non-fiberglass;
TGP8000PT-01: single side;
TGP8000PT: double sides;

2* Carrier: Fiberglass reinforcement lay for easier handling;

*Typical property data values should not be used as specifications

Honeywell Electronic Materials

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Germany: 49-5137-999-9199
Japan: 81-3-6730-7092
Korea: 82-2-3483-5076
Singapore: 65-6580-3593

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