

## THERMAL PAD

### G Series

#### Application:

- Computer Internals.
- Power Transistors.
- Power Supply Equipment.



Part Number		G10H18	G20H35	G40H65	G4LH65	G60H18	Remark
Thermal Conductivity (W/m.K)	Our Tests	1.8	3.5	6.5	6.5	1.8	-
	Hot Wire Method <sup>*1</sup>	1.0	1.4	2.1	2.1	1.0	JIS R 2616
Appearance		White	Orange	Grey	Grey	Blue	-
Specific Gravity		1.7	2.1	2.8	2.9	1.7	JIS K 6249
Hardness (Shore 00)		30	48	57	55	16	ASTM D2240
Specific Volume Resistance Ratio (Ω.cm)		7.7 x 10 <sup>13</sup>	1.0 x 10 <sup>12</sup>	5.7 x 10 <sup>12</sup>	7.09 x 10 <sup>12</sup>	8.70 x 10 <sup>13</sup>	JIS K 6249
Tensile Strength (MPa)		0.17	0.23	0.12	0.35	0.15	JIS K 6249
Elongation (%)		164	115	220	68	350	JIS K 6249
Compression Set (%)		69	78	92	72	49	JIS K 6249
Dielectric Dissipation Factor	<50Hz>	0.290	0.106	0.198	0.006	0.115	JIS K 6249
	<1kHz>	0.153	0.067	0.082	0.002	0.057	JIS K 6249
	<1MHz>	0.013	0.017	0.054	0.0004	0.0050	JIS K 6249
Dielectric Constant	<50Hz>	7.3	6.1	8.6	5.6	5.2	JIS K 6249
	<1kHz>	4.8	5.2	7.6	5.0	3.7	JIS K 6249
	<1MHz>	3.9	4.5	7.4	5.5	3.4	JIS K 6249
Dielectric Breakdown Voltage (kV/mm)		18.0	15.7	7.2	12.5	12.5	JIS K 6249
Low Molecular Weight Siloxane Level ΣD4-10 (ppm)	Solvent Extraction	< 600	< 700	< 300	< 13	< 60	Solvent Extraction
	Head Space <sup>*2</sup>	< 5	< 1	< 1	-	< 1	-
Flame Retardance		V-1 (0.5 mmt) V-0 (1.0 ~ 3.0 mmt)	V-0 (0.5 ~ 3.0 mmt)	V-0 (0.5 ~ 3.0mmt)	V-0 (0.5 ~ 3.0 mmt)	V-1 (0.5 mmt) V-0 (1.0 ~ 3.0 mmt)	UL94
RoHS Controlled Substances <sup>*3</sup>		Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-
Temperature Range (°C) <sup>*4</sup>		- 40 ~ +150	- 40 ~ +120	-40 ~ +200	-40 ~ +150	-40 ~ +150	-

\*1 Hot Wire Method: Using the QTM-500 Quick Thermal Conductivity Meter from Kyoto Electronics Manufacturing Co, Ltd.

\*2 Head Space Method: at 70°C.

\*3 RoHS controlled substances: Assayed by DGD Far East Ltd.

\*4 Temperature Range: These temperature ranges are not guaranteed by AMEC Thermasol.

The applicability should be determined through actual tests under actual conditions.

#### AMEC Thermasol

Marcom House, 1-2 Steam Mill Lane, Great Yarmouth, Norfolk, NR31 0HP

Telephone: +44(0) 1493 668622 Fax: +44(0) 1493 668623

Email: [sales@amecthermasol.co.uk](mailto:sales@amecthermasol.co.uk) Website: [www.amecthermasol.co.uk](http://www.amecthermasol.co.uk)