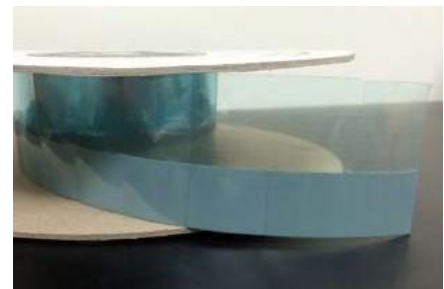


## LTM6300, PCM45F, PTM5000, PTM6000, PTM7000, PTM7900, PTM7950

### High Thermal Conductive Phase Change Material



Honeywell's thermal conductive phase change material (PCM) is available in both pad and paste formats, and is designed to minimize thermal resistance at interfaces and maintain extremely stable performance through reliability testing required for long product life applications.

Based on a robust polymer PCM structure, this material exhibits excellent wetting properties during typical operating temperature ranges, resulting in very low surface contact resistance. The proprietary material provides superior reliability and maintains low thermal impedance, making PCM desirable for high-performance integrated circuit devices.

| Property   | LTM Series            | PCM45F Series         | PTM5000 Series        | PTM6000 Series <sup>1*</sup> | PTM7000 Series        | Test Method         |
|--|-----------------------|-----------------------|-----------------------|------------------------------|-----------------------|---------------------|
| <b>Thermal Conductivity (W/m·K)</b>                      | 1.8-2.4               | 2.0-2.5               | 3.5-4.5               | 3.5-4.5                      | 6.0-8.5               | ASTM D5470          |
| <b>Thermal Impedance (°C·in<sup>2</sup>/W) @ no shim</b> | 0.12-0.14             | 0.09-0.12             | 0.06-0.08             | 0.06-0.08                    | 0.04-0.06             | ASTM D5470 Modified |
| <b>Density(g/cm<sup>3</sup>)</b>                         | 1.8                   | 2.2                   | 2.3                   | 2.3                          | 2.7                   |                     |
| <b>Volume Resistivity (ohm-cm)</b>                       | 3.0x 10 <sup>15</sup> | 8.2x 10 <sup>14</sup> | 2.1x 10 <sup>14</sup> | 2.1x 10 <sup>14</sup>        | 2.1x 10 <sup>14</sup> | ASTM D257           |
| <b>Thickness Range(mm)</b>                               | NA                    | 0.20-1.00             | 0.20-1.00             | 0.20-1.00                    | 0.20-1.00             | UL 94               |

<sup>1\*</sup> PTM6000 has high reliability compared with PTM5000  
 \*Typical property data values should not be used as specifications

### Honeywell Electronic Materials

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