

# Gap Pad® 1500S30

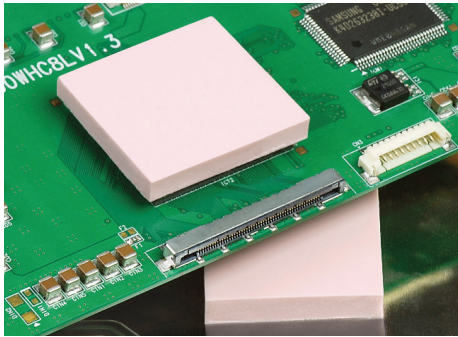
September 2014

## PRODUCT DESCRIPTION

Highly Conformable, Thermally Conductive, Reinforced "S-Class" Gap Filling Material

## FEATURES AND BENEFITS

- Thermal conductivity: 1.3 W/m-K
- Highly conformable / low hardness
- Decreased strain on fragile components
- Fiberglass reinforced for puncture, shear and tear resistance
- Quick rebound to original shape



Gap Pad® 1500S30 is a highly compliant Gap Pad® material that is ideal for fragile component leads. The material is fiberglass reinforced for improved puncture resistance and handling characteristics. Gap Pad® 1500S30 maintains a conformable, yet elastic nature that provides excellent interfacing and wet-out characteristics, even to surfaces with high roughness or uneven topography.

Gap Pad® 1500S30 features an inherent tack on both sides of the material, eliminating the need for thermally impeding adhesive layers.

*Note: To build a part number, visit our website at [www.bergquistcompany.com](http://www.bergquistcompany.com).*

## TYPICAL PROPERTIES OF GAP PAD 1500S30

| PROPERTY   | IMPERIAL VALUE        | METRIC VALUE     | TEST METHOD |
|--|-----------------------|------------------|-------------|
| Color  | Light Pink            | Light Pink       | Visual      |
| Reinforcement Carrier                                | Fiberglass            | Fiberglass       | ASTM D374   |
| Thickness (inch) / (mm)                              | 0.020 to 0.250        | 0.508 to 6.350   | ASTM D374   |
| Inherent Surface Tack (1 side)                       | 2                     | 2                | —           |
| Density (Bulk Rubber) (g/cc)                         | 1.8                   | 1.8              | ASTM D792   |
| Heat Capacity (J/g-K)                                | 1.0                   | 1.0              | ASTM E1269  |
| Hardness (Bulk Rubber) (Shore 00) (1)                | 30                    | 30               | ASTM D2240  |
| Young's Modulus (psi) / (kPa) (2)                    | 16                    | 110              | ASTM D575   |
| Continuous Use Temp (°F) / (°C)                      | -76 to 392            | -60 to 200       | —           |
| <b>ELECTRICAL</b>                                    |                       |                  |             |
| Dielectric Breakdown Voltage (Vac)                   | >6000                 | >6000            | ASTM D149   |
| Dielectric Constant (1000 Hz)                        | 5.0                   | 5.0              | ASTM D150   |
| Volume Resistivity (Ohm-meter)                       | 10 <sup>11</sup>      | 10 <sup>11</sup> | ASTM D257   |
| Flame Rating   | V-O                   | V-O              | U.L. 94     |
| <b>THERMAL</b>                                       |                       |                  |             |
| Thermal Conductivity (W/m-K)                         | 1.3                   | 1.3              | ASTM D5470  |
| <b>THERMAL PERFORMANCE vs. STRAIN</b>                |                       |                  |             |
|  | Deflection (% strain) |                  |             |
|  | 10                    | 20               | 30          |
| Thermal Impedance (°C-in <sup>2</sup> /W) 0.040" (3) | 1.69                  | 1.41             | 1.26        |

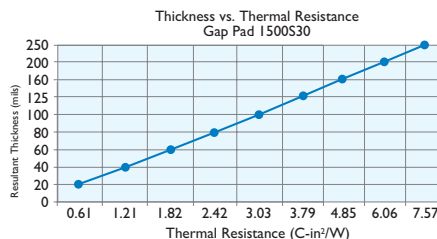
1) Thirty second delay value Shore 00 hardness scale. 2) Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch<sup>2</sup>. 3) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

## TYPICAL APPLICATIONS INCLUDE

- Any heat-generating component and a heat sink
- Computers and peripherals
- Telecommunications
- Between any heat-generating semiconductor and a heat sink
- Shielding devices

## CONFIGURATIONS AVAILABLE

- Sheet form and die-cut parts



## Disclaimer

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