

Gap Pad[®] 5000S35

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PRODUCT DESCRIPTION

High thermal conductivity plus "S-Class" softness and conformability

FEATURES AND BENEFITS

- High thermal conductivity: 5.0 W/m-K
- Highly conformable, "S-Class" softness
- Natural inherent tack reduces interfacial thermal resistance
- Conforms to demanding contours and maintains structural integrity with little or no stress applied to fragile component leads
- Fiberglass reinforced for puncture, shear and tear resistance
- Excellent thermal performance at low pressures



Gap Pad® 5000S35 is a fiberglassreinforced filler and polymer featuring a high thermal conductivity. The material yields extremely soft characteristics while maintaining elasticity and conformability. The fiberglass reinforcement provides easy handling and converting, added electrical isolation and tear resistance. The inherent natural tack on both sides assists in application and allows the product to effectively fill air gaps, enhancing the overall thermal performance. The top side has reduced tack for ease of handling. Gap Pad® 5000S35 is ideal for high-performance applications at low mounting pressures.

Note: To build a part number, visit our website at www.bergquistcompany.com.

TYPICAL PROPERTIES OF GAP PAD 5000S35 TEST METHOD PROPERTY IMPERIAL VALUE METRIC VALUE Color Light Green Light Green Visual Reinforcement Carrier Fiberglass Fiberglass Thickness (inch) / (mm) 0.020 to 0.125 0.508 to 3.175 ASTM D374 Inherent Surface Tack (I side) 2 2 Density (Bulk Rubber) (g/cc) 36 36 ASTM D792 Heat Capacity (J/g-K) 1.0 0.1 ASTM EI269 Hardness (Bulk Rubber) (Shore 00) (1) 35 35 ASTM D2240 17.5 121 ASTM D575 Young's Modulus (psi) / (kPa) (2) -76 to 392 -60 to 200 Continuous Use Temp (°F) / (°C) ELECTRICAL >5000 >5000 ASTM D149 Dielectric Breakdown Voltage (Vac) Dielectric Constant (1000 Hz) 7.5 7.5 ASTM D150 Volume Resistivity (Ohm-meter) 109 109 ASTM D257 Flame Rating V-O V-O U.L. 94 THERMAL Thermal Conductivity (W/m-K) 50 50 ASTM D5470

 Deflection (% strain)
 I0
 20
 30

 Thermal Impedance (°C-in²/W) 0.040" (3)
 0.41
 0.34
 0.30

 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 inch².
 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

- · Voltage Regulator Modules (VRMs) and POLs
- CD ROM/DVD ROMPC Board to chassis
- Memory packages/modules
- Thermally-enhanced BGAs
- ASICs and DSPs

CONFIGURATIONS AVAILABLE

· Die-cut parts are available in any shape or size, separated or in sheet form



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