Gap Pad® VO Ultra Soft

Ultra Conformable, Thermally Conductive Material for Filling Air Gaps

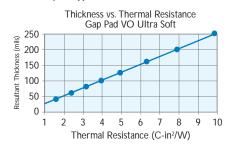
Features and Benefits

- Thermal conductivity: 1.0 W/m-K
- Highly conformable, low hardness
- "Gel-like" modulus
- Designed for low-stress applications
- · Puncture, shear and tear resistant
- · Electrically isolating



Gap Pad VO Ultra Soft is recommended for applications that require a minimum amount of pressure on components. The viscoelastic nature of the material also gives excellent low-stress vibration dampening and shock absorbing characteristics. Gap Pad VO Ultra Soft is an electrically isolating material, which allows its use in applications requiring isolation between heat sinks and high-voltage, bare-leaded devices.

Note: Resultant thickness is defined as the final gap thickness of the application.



TYPICAL PROPERTIES OF GAP PAD VO ULTRA SOFT PROPERTY IMPERIAL VALUE METRIC VALUE TEST METHOD Color Mauve/Pink Mauve/Pink Visual Sil-Pad Sil-Pad Reinforcement Carrier 0.020 to 0.250 0.508 to 6.350 Thickness (inch) / (mm) ASTM D374 Inherent Surface Tack (1- or 2-sided) Density (g/cc) 16 16 ASTM D792 Heat Capacity (J/g-K) 1.0 1.0 ASTM E1269 Hardness, Bulk Rubber (Shore 00) (1) 5 5 ASTM D2240 55 ASTM D575 Young's Modulus (psi) / (kPa) (2) 8 Continuous Use Temp (°F) / (°C) -76 to 392 -60 to 200 **ELECTRICAL** Dielectric Breakdown Voltage (Vac) >6000 >6000 ASTM D149 Dielectric Constant (1000 Hz) 5.5 5.5 ASTM D150 Volume Resistivity (Ohm-meter) 101 101 ASTM D257 Flame Rating V-O V-O U.L. 94 **THERMAL** Thermal Conductivity (W/m-K) 1.0 1.0 ASTM D5470 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 inch². For more information on Gap Pad

Typical Applications Include:

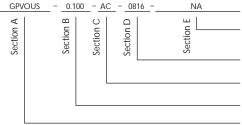
modulus, refer to Bergquist Application Note #116

- Telecommunications
- · Computer and peripherals
- · Power conversion
- Between heat-generating semiconductors or magnetic components and a heat sink
- Area where heat needs to be transferred to a frame, chassis, or other type of heat spreader

Configurations Available:

• Sheet form and die-cut parts

Building a Part Number



Standard Options

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NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

0816 = Standard sheet size 8" x 16", or 00 = custom configuration

AC = Adhesive on Sil-Pad® side, natural tack on one side 00 = No pressure sensitive adhesive, natural tack on one side

Standard thicknesses available: 0.020", 0.040", 0.060", 0.080", 0.100", 0.125", 0.160", 0.200", 0.250"

GPVOUS = Gap Pad VO Ultra Soft Material

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

Gap Pad®: U.S. Patent 5,679,457 and others



www.bergquistcompany.com