

Gap Pad[®] VO Ultra Soft

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PRODUCT DESCRIPTION

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
- Decreased strain
- · 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: To build a part number, visit our website at www.bergquistcompany.com.

PROPERTY	IMPERIAL VALUE	METRIC VALUE		TEST METHOD	
Color	Mauve/Pink	Mauve/Pink		Visual	
Reinforcement Carrier	Fiberglass	Fiberglass			
Thickness (inch) / (mm)	0.020 to 0.250	0.508 to 6.350		ASTM D374	
Inherent Surface Tack (I sided)	I				
Density (Bulk Rubber) (g/cc)	1.6	1.6		ASTM D792	
Heat Capacity (J/g-K)	1.0	0.1		ASTM EI269	
Hardness (Bulk Rubber) (Shore 00) (1)	5	5		ASTM D2240	
Young's Modulus (psi) / (kPa) (2)	8	55		ASTM D575	
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 D I 50	
Volume Resistivity (Ohm-meter)	1011	1011		ASTM D257	
Flame Rating	V-0	V-0		U.L. 94	
THERMAL					
Thermal Conductivity (W/m-K)	1.0	0.1		ASTM D5470	
THERMAL PERFORMANCE vs. STR	AIN				
	Deflection (%	strain)	10	20	30
Thermal Impedance (°C-in²/W) 0.040" (3)			1.97	1.87	1.68

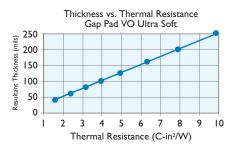
I) Thirty second delay value Shore 00 hardness scale. 2)Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch³. 3) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

TYPICAL APPLICATIONS INCLUDE

- 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



PDS_GP_VOUS_0711



Disclaimer

Note:

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Reference 0.1