mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Gap Pad[®] VO Ultimate

Ultra Conformability, Robust, Improved Thermal Conductivity, Gap Filling Material

Features and Benefits

- Thermal conductivity: I.3 W/m-K
- Ultra conformability
- Gel-like modulus
- Excellent rebound
- Decreased strain
- Remarkable handling
- Electrically isolating



Gap Pad[®] VO Ultimate is a robust, highly compliant product that is ideal for both small and large gap designs. The fiberglass carrier on one side of the material allows ease of rework, excellent handling characteristics and puncture resistance. Additionally the fiberglass carrier has a slight inherent tack, minimizing any shifting during assembly.

The conformable and elastic nature of Gap Pad[®] VO Ultimate allows excellent interfacing and wetout characteristics, even to surfaces with a high degree of roughness or uneven topography.

The construction of Gap Pad® VO Ultimate; one side has high inherent tack, while the other side has minimal tack. This combination is useful for manual and automated processes.

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



TYPICAL PROPERTIES OF GAP PAD VO ULTIMATE			
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Gray/Black	Gray/Black	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)			_
Density (Bulk Rubber) (g/cc)	1.8	1.8	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM EI 269
Hardness (Bulk Rubber) (Shore 00) (1)	30	30	ASTM D2240
Young's Modulus (psi) / (kPa) (2)	13	90	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)	5.0	5.0	ASTM D150
Volume Resistivity (Ohm-meter)	1 O ⁹	1 O ⁹	ASTM D257
Flame Rating	V-O	V-O	U.L. 94
THERMAL			
Thermal Conductivity (W/m-K)	1.3	1.3	ASTM D5470
THERMAL PERFORMANCE vs. STRAIN			
	Deflection (% strain) 10		20 30

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. 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.

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

Typical Applications:

- Various IC packages
- Thermally enhanced BGA packages
- Between any heat-generating semiconductor and a heat sink
- Computers and peripherals

Configurations Available:

• Sheet form and die-cut parts

Building a Part Number



Standard Options

1.60

1.55

1.46

📢 example

Telecommunications

• LED lighting packages

Power conversion

Automotive

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 01 = No pressure sensitive adhesive, natural tack on one side Standard thickness available: 0.020", 0.040", 0.060" 0.080", 0.100", 0.125"

GPVOU = Gap Pad VO Ultimate Material

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

The Bergquist Company -North American Headquarters 18930 West 78th Street Chanhassen, MN 55317 Phone: 800-347-4572 Fax: 952-835-0430

The Bergquist Company -European Headquarters The Bergquist Company -Asia Headquarters

Netherlands Phone: 31-35-5380684

Fax: 31-35-5380295

The Bergquist Company -Asia Headquarters Hong Kong Phone: 852-2690-9296 Fax: 852-2690-2344 All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers' and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NETHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER INTORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer PDS_GP_VOUltimate_0711