

Order code	Manufacturer code	Description	
38-1020	n/a	n/a	
38-1022	n/a	n/a	
38-1018	n/a	n/a	

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The enclosed information is believed to be correct, Information may change <i>without noticeqdue to</i>	Revision A
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	20/02/2007

Technical: 01206 835555 Tech@rapidelec.co.uk

Gap Pad[®] 2000S40

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

Features and Benefits

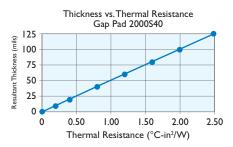
- Thermal conductivity: 2.0 W/m-K
- Low "S-Class" thermal resistance at very low pressures
- Highly conformable, low hardness
- Designed for low-stress applications
- Fiberglass reinforced for puncture, shear and tear resistance



Gap Pad 2000S40 is recommended for lowstress applications that require a mid- to highthermally conductive interface material. The highly conformable nature of the material allows the pad to fill in air voids and air gaps between PC boards and heat sinks or metal chassis with stepped topography, rough surfaces, and high stack-up tolerances.

Gap Pad 2000S40 is electrically isolating, thus well suited for applications requiring electrical isolation between heat sinks and high-voltage, bare-leaded devices. Gap Pad 2000S40 is a filled, thermally conductive polymer reinforced with a fiberglass carrier on one side, allowing for easy material handling and enhanced puncture, shear and tear resistance.

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



TYPICAL PROPERTIES OF GAP PAD 2000S40						
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD			
Color	Gray	Gray	Visual			
Reinforcement Carrier	Fiberglass	Fiberglass				
Thickness (inch) / (mm)	0.020 to 0.125	0.508 to 3.175	ASTM D374			
Inherent Surface Tack (I - or 2-sided)	2	2				
Density (g/cc)	2.9	2.9	ASTM D792			
Heat Capacity (J/g-K)	0.6	0.6	ASTM EI269			
Hardness, Bulk Rubber (Shore 00) (1)	25	25	ASTM D2240			
Young's Modulus (psi) / (kPa) (2)	45	310	ASTM D575			
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200				
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	>5000	>5000	ASTM D149			
Dielectric Constant (1000 Hz)	6.0	6.0	ASTM D150			
Volume Resistivity (Ohm-meter)	1011	1011	ASTM D257			
Flame Rating	V-O	V-O	U.L. 94			
THERMAL						
Thermal Conductivity (W/m-K)	2.0	2.0	ASTM D5470			
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 inch². For more information on Gap Pad modulus, refer to Bergquist Application Note #116.

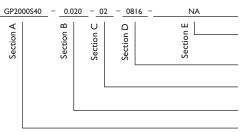
Typical Applications Include:

- Power electronics DC/DC, 1/4, 1/2, full bricks, etc.
- Mass storage devices
- Graphics card/processor
- Wireline/wireless communications hardware
- Automotive engine/transmission controls

Configurations Available:

• Sheet form and die-cut parts

Building a Part Number



Standard Options

example

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

02 = Natural tack, both sides

Standard thicknesses available: 0.020". 0.040". 0.060". 0.080", 0.100", 0.125"

GP2000S40 = Gap Pad 2000S40 Material

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

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



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