

Gap Pad® 5000S35

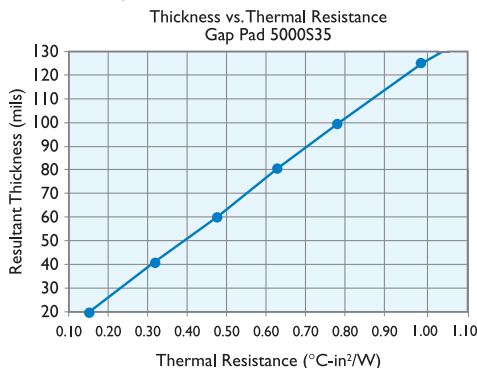
High thermal conductivity plus "S-Class" softness and conformability

Features and Benefits

- High thermal conductivity: 5 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 fiberglass-reinforced 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.



TYPICAL PROPERTIES OF GAP PAD 5000S35				
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD	
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 (1or 2 sided)	2	2	—	
Density (g/cc)	3.6	3.6	ASTM D792	
Heat Capacity (J/g-K)	1.0	1.0	ASTM E1269	
Hardness Bulk Rubber (Shore 00) (1)	35	35	ASTM D2240	
Young's Modulus (psi) / (kPa) (2)	17.5	121	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)	7.5	7.5	ASTM D150	
Volume Resistivity (Ohm-meter)	10 ⁹	10 ⁹	ASTM D257	
Flame Rating	V-O	V-O	U.L. 94	
THERMAL				
Thermal Conductivity (W/m-K)	5.0	5.0	ASTM D5470	
THERMAL PERFORMANCE vs. PRESSURE				
	Pressure (psi)	10	25	50
TO-220 Thermal Performance (°C/W) (20 mil)		1.18	1.10	0.99
Thermal Impedance (°C-in ² /W) (3)		0.21	0.18	0.15
TO-220 Thermal Performance (°C/W) (40 mil)		1.54	1.34	1.15
Thermal Impedance (°C-in ² /W) (3)		0.30	0.28	0.25

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 modulus, refer to Bergquist Application Note #116. 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.

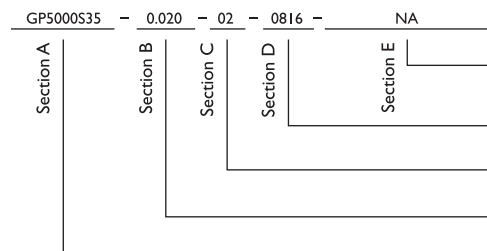
Typical Applications

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

Configurations Available:

- Die-cut parts are available in any shape or size, separated or in sheet form
- Custom thicknesses available upon request

Building a Part Number



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

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"

GP5000S35 = Gap Pad 5000S35 Material

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



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