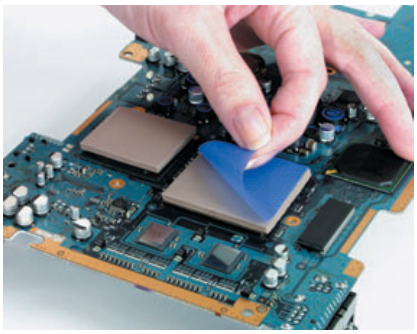
Gap Pad® 2500

Thermally Conductive, Unreinforced Gap Filling Material

Features and Benefits

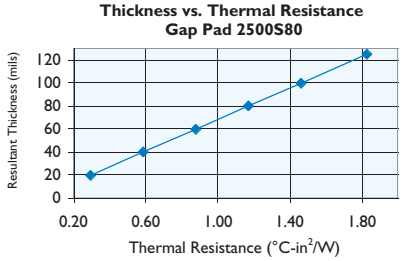
- Thermal conductivity = 2.7 W/mK
- High thermal performance cost effective solution
- Unreinforced construction for additional compliancy
- Medium compliancy and conformability



Gap Pad 2500 is a thermally conductive, electrically insulating, un-reinforced gap filling material. Gap Pad 2500 is a filled polymer material yielding a soft yet elastic polymer that allows for easy handling and converting without the need for reinforcement. Gap Pad 2500 material is conformable yet elastic, allowing for good wet-out and interfacing characteristics to surfaces with high roughness and/or topography. All these characteristics make this material ideal for mid-pressure applications that use either clip or screw mounted assembly.

Gap Pad 2500 is offered with inherent natural tack on both sides of the material allowing for stick-in-place characteristics during application assembly. The material is supplied with protective liners on both sides.

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



TYPICAL PROPERTIES OF GAP PAD 2500

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Light Brown	Light Brown	Visual
Reinforcement Carrier	—	—	—
Thickness (inch) / (mm)	0.020 to 0.125	0.508 to 3.175	ASTM D374
Inherent Surface Tack (1 or 2 sided)	2	2	—
Density (g/cc)	3.1	3.1	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM C351
Hardness, Bulk Rubber (Shore 00) (1)	80	80	ASTM D2240
Young's Modulus (psi) / (kPa) (2)	113	779	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)	6.8	6.8	ASTM D150
Volume Resistivity (Ohm-meter)	10^{11}	10^{11}	ASTM D257
Flame Rating	V-O	V-O	U.L.
THERMAL			
Thermal Conductivity (W/m-K)	2.7	2.7	ASTM D5470

1) One 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:

- Multiple heat generating components to a common heat sink
- Graphics chips to heat sinks
- Processors to heat sinks
- Mass storage drives
- Wireline / wireless communications hardware

Configurations Available:

- Sheet form and die-cut parts

Building a Part Number

GP2500 - 0.100 - 02 - 00 - ACME 89302Rev.a

- Section A: GP2500 = Gap Pad 2500
- Section B: Standard Thicknesses Available: 0.020", 0.040", 0.060", 0.080", 0.100", 0.125"
- Section C: 02 = Naturally tacky both sides
- Section D: 0816 = Standard sheet size 8" X 16", 00 = Custom configuration
- Section E: NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

Standard Options

example

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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