Gap Pad® 1450

Highly Conformable, Thermally Conductive, Reworkable Gap Filling Material

Features and Benefits

- Thermal Conductivity: 1.3 W/m-K (Bulk Rubber)
- Permanent liner reinforcement allows easy rework and resistance to puncture and tear resistance
- Highly conformable/low hardness
- · Low strain on fragile components

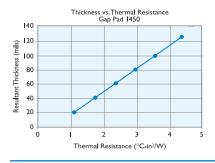


Gap Pad® 1450 is a highly compliant Gap Pad material that is ideal for fragile component leads. The material includes a permanent liner, which facilitates rework and improves puncture resistance and handling characteristics. The un-lined side of Gap Pad® 1450 maintains a conformable, yet elastic nature that provides excellent interfacing and wet-out characteristics, even to surfaces with high roughness or uneven topography.

Gap Pad® 1450 has inherent tack on one side of the material, eliminating the need for thermally impeding adhesive layers.

It is highly recommended that the permanent liner be left intact. Gap Pad® 1450 permanent clear liner can also be removed if needed for thicknesses above 60 mil. Removing the clear permanent liner will not have significant impact on thermal performance.

Please contact your local Bergquist Sales Representative for sample inquiries and additional product information.



PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Light Pink	Light Pink	Visual
Reinforcement Carrier	Permanent Liner	Permanent Liner	_
Thickness (inch) / (mm)	0.020 to 0.125	0.508 to 3.175	ASTM D374
Inherent Surface Tack (I side)	1		_
Density (Bulk Rubber) (g/cc)	1.8	1.8	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM E1269
Hardness (Bulk Rubber) (Shore 00) (1)	30	30	ASTM D2240
Young's Modulus (psi) / (kPa) (2)	16	110	ASTM D575
Continuous Use Temp (°F) / (°C)	-76 to 302	-60 to 150	_
ELECTRICAL			
Dielectric Breakdown Voltage (Vac)	>6000	>6000	ASTM D149
Dielectric Constant (1000 Hz)	5.0	5.0	ASTM D150
Volume Resistivity (Ohm-meter)	109	109	ASTM D257
Flame Rating	V-0	V-0	U.L. 94
THERMAL			
Thermal Conductivity (W/m-K)	1.3	1.3	ASTM D5470

- 2) Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch².

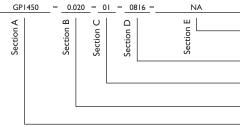
Typical Applications:

- Lighting and LED applications
- · Low strain is required for fragile component leads
- Computer and peripherals
- Telecommunications
- Between any heat-generating semiconductor and a heat sink

Configurations Available:

• Sheet form and die-cut parts

Building a Part Number



Standard Options

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

01 = Natural tack, one side

Standard thickness available: 0.020", 0.040", 0.060" 0.080", 0.100", 0.125"

GPI450 = Gap Pad I450 Material

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

www.bergquistcompany.com

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