

Gap Pad® 1450

August 2013

PRODUCT DESCRIPTION

Highly Conformable, Thermally Conductive, Reworkable Gap Filling Material

FEATURES AND BENEFITS

- Thermal Conductivity: 1.3 W/m-K (Bulk Rubber)
- PEN film 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 PEN film, which facilitates rework and improves puncture resistance and handling characteristics. The tacky 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 PEN film be left intact. However, film removal will not have a significant impact on thermal performance.

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

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

TYPICAL PROPERTIES OF GAP PAD 1450

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Light Pink	Light Pink	Visual
Reinforcement Carrier	PEN film	PEN film	—
Thickness (inch) / (mm)	0.020 to 0.125	0.508 to 3.175	ASTM D374
Inherent Surface Tack (1 side)	I	I	—
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)	10 ⁹	10 ⁹	ASTM D257
Flame Rating	V-0	V-0	UL 94
THERMAL			
Thermal Conductivity (W/m-K)	1.3	1.3	ASTM D5470

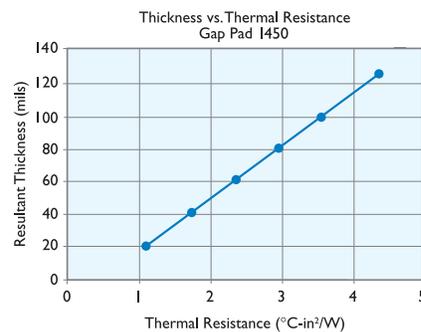
1) Thirty second delay value Shore 00 hardness scale.
2) Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch².

TYPICAL APPLICATIONS INCLUDE

- 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



Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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