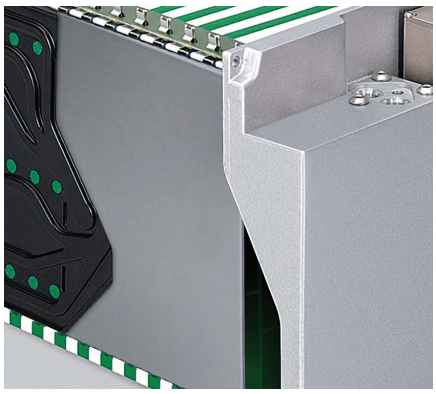
Gap Pad® 1000HD

Durable, Highly Conformable, Thermally Conductive, Gap Filling Material

Features and Benefits

- Thermal Conductivity: 1.0 W/m-K
- Designed for high durability in applications
- Highly conformable
- Ease of rework in applications
- Robust Polyimide carrier for handling ease, and puncture and tear resistance

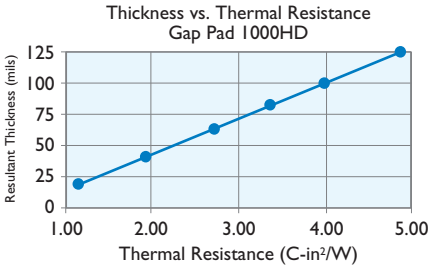


Gap Pad® 1000HD was designed to withstand applications requiring high durability in addition to the thermal properties of the material.

The coated polyimide carrier on one side of the material allows easy rework, excellent handling characteristics and puncture resistance. This smooth carrier side allows lower friction while in contact with slightly moving parts.

The conformable and elastic nature of Gap Pad® 1000HD allows excellent interfacing and wet-out characteristics, even to surfaces with a high degree of roughness or uneven topography.

The construction of Gap Pad® 1000HD; one side has high inherent tack, while the other side has minimal or no tack. This combination is useful for manual and automated processes.



TYPICAL PROPERTIES OF GAP PAD 1000HD			
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Gray/Black	Gray/Black	Visual
Reinforcement Carrier	Polyimide	Polyimide	—
Thickness (inch) / (mm)	0.020 to 0.125	0.508 to 3.175	ASTM D374
Inherent Surface Tack (1- or 2-sided)	1	1	—
Density (g/cc)	2.1	2.1	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM E1269
Hardness, Bulk Rubber (Shore 00) (1)	50	50	ASTM D2240
Young's Modulus (psi) / (kPa) (2)	60	414	ASTM D575
Continuous Use Temp. (°C)	-76 to 358	-60 to 180	—
ELECTRICAL			
Dielectric Breakdown Voltage (Vac)	>10,000	>10,000	ASTM D149
Dielectric Constant (1000 Hz)	5.5	5.5	ASTM D150
Volume Resistivity (Ohm-meter)	10^{11}	10^{11}	ASTM D257
Flame Rating	V-O	V-O	U.L. 94
THERMAL			
Thermal Conductivity (W/m-K)	1.0	1.0	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:

- High durability applications
- Automotive energy storage
- Computer and peripherals
- Telecommunications
- Between any heat-generating semiconductor and a heat sink

Configurations Available:

- Sheet form
- Die-cut parts

Building a Part Number

GP1000HD – 0.100 – AC – 0816 – NA

Section A: GP1000HD
Section B: 0.100
Section C: AC
Section D: 0816
Section E: NA

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

01 = Natural tack on one side

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

GP1000HD = Gap Pad 1000HD Material

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

Standard Options

RICO PRODUCTS INC.

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