

Gap Pad® 2202SF

Silicone-Free Formulation, High Performance Thermally Conductive Material

Features and Benefits

- Thermal conductivity: 2.0 W/m-K
- Silicone-free formulation
- Minimal compression set
- 0.5 mil film provides tack-free surface
- Tacky side allows for ease of handling and placement

Gap Pad 2202SF is a high performance, 2.0 W/m-K, thermally conductive gap filling material. The Gap Pad 2202SF resin is silicone-free by design and offers exceptionally low interfacial resistances to adjacent surfaces.

Gap Pad 2202SF is specifically designed for silicone-sensitive applications. The material's construction features a 0.5 mil PET film on one side and natural tack on the other. The natural tack eliminates the need for an additional adhesive layer.

TYPICAL PROPERTIES OF GAP PAD 2202SF			
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Gray	Gray	Visual
Reinforcement Carrier	0.5 mil PET Film	0.5 mil PET Film	—
Thickness (inch) / (mm)	0.010 to 0.125	0.254 to 3.175	ASTM D374
Inherent Surface Tack (1 or 2 sided)	1	1	—
Density (g/cc)	2.8	2.8	ASTM D792
Hardness (Bulk Rubber) (Shore 00) ¹	70	70	ASTM D2240
Continuous Use Temp (°F) / (°C)	-40 to 257	-40 to 125	—
ELECTRICAL			
Dielectric Constant (1000 Hz)	6.0	6.0	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) ²	2.0	2.0	ASTM D5470 ³

1) Thirty second delay value at 250 mil, 23°C. 2) This is the measured thermal conductivity of the Gap Pad Compound. 3) The ASTM D5470 text fixture was used. The recorded value includes interfacial thermal resistance. These values are given to the customer for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

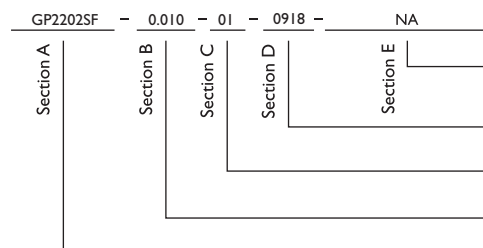
Typical Applications:

- Hard drives
- Optical applications
- Set top boxes

Configurations Available:

- Sheet form
- We produce thousands of specials. Tooling charges vary depending on tolerances and complexity of the part.
- Custom thicknesses available upon request

Building a Part Number



Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

0918 = Standard sheet size 9" x 18", or
00 = custom configuration

01 = Natural tack, one side

Standard thickness available: 0.010", 0.023", 0.030", 0.040",
0.045", 0.060", 0.080", 0.100", 0.125"

GP2202SF = Gap Pad 2202SF Material

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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