

# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Bergquist GP2500S20-0.100-02-0816

For any questions, you can email us directly: sales@integrated-circuit.com



### **Distributor of Bergquist: Excellent Integrated System Limited**

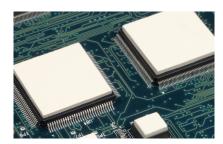
Datasheet of GP2500S20-0.100-02-0816 - THERMAL PAD 2500S20 8X16" 0.100" Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

# **Gap Pad® 2500S20**

Highly Conformable, Thermally Conductive, Reinforced "S-Class" Gap Filling Material

#### **Features and Benefits**

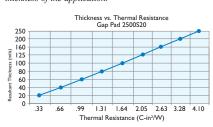
- Thermal conductivity: 2.4 W/m-K
- Low "S-Class" thermal resistance at ultra-low pressures
- Ultra conformable, "gel-like" modulus
- Designed for low-stress applications
- Fiberglass reinforced for puncture, shear and tear resistance



Gap Pad 2500S20 is a thermally conductive, reinforced material rated at a thermal conductivity of 2.4 W/m-K.The material is a filled-polymer material yielding extremely soft, elastic characteristics. The material is reinforced to provide easy handling, converting, added electrical isolation and tear resistance. Gap Pad 2500S20 is well suited for low-pressure applications that typically use fixed standoff or clip mounting. The material maintains a conformable, yet elastic nature that allows for excellent interfacing and wet-out characteristics, even to surfaces with high roughness and/or topography.

Gap Pad 2500S20 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. The top side has reduced tack for ease of handling.

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



TYPICAL PRO					
PROPERTY	IMPERIAL VALUE	METRIC VALUE		TEST METHOD	
Color	Light Yellow	Light Yellow		Visual	
Reinforcement Carrier	Fiberglass	Fiberglass		_	
Thickness (inch) / (mm)	0.010 to 0.250	0.254 to 6.350		ASTM D374	
Inherent Surface Tack (1 side)	2	2		_	
Density (Bulk Rubber) (g/cc)	3.1	3.1		ASTM D792	
Heat Capacity (J/g-K)	1.0	1.0		ASTM E1269	
Hardness (Bulk Rubber) (Shore 00) (1)	20	20		ASTM D2240	
Young's Modulus (psi) / (kPa) (2)	5	35		ASTM D575	
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200		_	
ELECTRICAL					
Dielectric Breakdown Voltage (Vac)	>3000	>3000		ASTM D149	
Dielectric Constant (1000 Hz)	6.6	6.6		ASTM D 150	
Volume Resistivity (Ohm-meter)	10"	1011		ASTM D257	
Flame Rating	V-O	V-O		U.L. 94	
THERMAL					
Thermal Conductivity (W/m-K)	2.4	2.4		ASTM D5470	
THERMAL PERFORMANCE vs. STR	AIN				
	Deflection (% strain)		10	20	30
Thermal Impedance (°C-in²/W) 0.040" (3) 0.75				0.68	0.61

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 inch<sup>1</sup>, 3) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

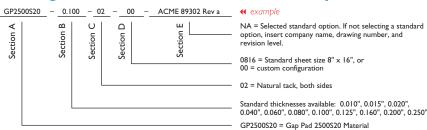
## **Typical Applications**

- Between processors and heat sinks
- · Between graphics chips and heat sinks
- DVD and CDROM electronics cooling
- Areas where heat needs to be transferred to a frame, chassis or other type of heat spreader

#### **Configurations Available:**

• Sheet form and die-cut parts

## **Building a Part Number**



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

# BERDOUIST

www.bergquistcompany.com

The Bergquist Company -North American Headquarters 18930 West 78th Street Chanhassen, MN 55317 Phone: 80-347-4572 Fax: 952-835-0430

The Bergquist Company -European Headquarters Netherlands Phone: 31-35-5380684 Fax: 31-35-5380295 The Bergquist Company -Asia Headquarters Hong Kong Phone: 852-2690-9296 Fax: 852-2690-2344 All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers and manufacturers only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith NETHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer:

PDS\_GP\_2500S20\_0711

**Standard Options**