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Bergquist SP400-0.009-00-51

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

Distributor of Bergquist: Excellent Integrated System Limited

Datasheet of SP400-0.009-00-51 - THERMAL PAD TO-220 .009" SP400

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Sil-Pad® 400

The Original Sil-Pad Material

Features and Benefits

- Thermal impedance: 1.13°C-in²/W (@50 psi)
- · Original Sil-Pad material
- Excellent mechanical and physical characteristics
- · Flame retardant



Sil-Pad 400 is a composite of silicone rubber and fiberglass. The material is flame retardant and is specially formulated for use as a thermally conductive insulator. The primary use for Sil-Pad 400 is to electrically isolate power sources from heat sinks.

Sil-Pad 400 has excellent mechanical and physical characteristics. Surfaces are pliable and allow complete surface contact with excellent heat dissipation. Sil-Pad 400 actually improves its thermal resistance with age. The reinforcing fiberglass provides excellent cut-through resistance. In addition, Sil-Pad 400 is non-toxic and resists damage from cleaning agents.

Gr Fiber 0.007, 8		Fiber 0.178, 8	glass 0.229	Vis		
Fiber 0.007, 8	glass 0.009	Fiber 0.178, 8	glass 0.229	_	ual –	
0.007,	0.009	0.178, 8	0.229			
8	5	8		NTZA	_	
3				ASTM D374		
	0		85		ASTM D2240	
5	30		5		ASTM D1458	
	54		54		ASTM D412	
3000		20		ASTM D412		
-76 to 356		-60 to 180		_		
3500, 4500		3500, 4500		ASTM D149		
5.5		5.5		ASTM D150		
1011		10 ¹¹		ASTM D257		
V-O		V-O		U.L. 94		
0.9		0.9		ASTM D5470		
RE						
re (psi)	10	25	50	100	200	
TO-220 Thermal Performance (°C/W) 0.007"		5.93	5.14	4.38	3.61	
TO-220 Thermal Performance (°C/W) 0.009"		7.62	6.61	5.63	4.64	
Thermal Impedance (°C-in²/W) 0.007" (1)		1.42				
07" (1)	1.02	1.42	1.13	0.82	0.54	
	5 10 V- 0 RE re (psi) 0.007" 0.009"	5.5 10 ¹¹ V-O 0.9 RE re (psi) 10 0.007" 6.62 0.009" 8.51	5.5 5. 10 ¹¹ 10 V-O V- 0.9 0. RE re (psi) 10 25 0.007" 6.62 5.93 0.009" 8.51 7.62	5.5 5.5 10 ¹¹ 10 ¹¹ V-O V-O RE re (psi) 10 25 50 0.007" 6.662 5.93 5.14 0.009" 8.51 7.62 6.61	5.5 5.5 ASTM 10 ¹¹ 10 ¹¹ ASTM V-O V-O UL 0.9 0.9 ASTM RE re (psi) 10 25 50 100 0.007" 6.62 5.93 5.14 4.38 0.009" 8.51 7.62 6.61 5.63	

 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 Include:

• Power supplies

Section A

- Automotive electronics
- Power semiconductors
- Motor controls

Configurations Available:

• Sheet form, die-cut parts and roll form; with or without pressure sensitive adhesive

Building a Part Number

Section C

Ω

Section

Section B

■ ★ example NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level. = = Standard configuration dash number, 1212 = 12" x 12" sheets, 12/250 = 12" x 250' rolls, or 00 = custom configuration

Standard Options

AC = Adhesive, one side; AC2 = Adhesive, two sides; or 00 = no adhesive

Standard thicknesses available: 0.007", 0.009"

SP400 = Sil-Pad 400 Material

Note: To build a part number, visit our website at www.bergquistcompany.com. Sil-Pad* U.S. Patents 4,574,879; 4,602,125; 4,602,678; 4,685,987; 4,842,911 and others



www.bergquistcompany.com