

DATA SHEET

Thermal Pads

Order code	Manufacturer code	Description		
38-0433	n/a	PK 15 T03P PADS **OFFER 38-1064**		
38-0428	SP 400AC-54	PK22 SILPAD 400 ADHESIVE PADS TO220 (RC)		
38-0432	BG99507	PK14 SIL-PAD 400 PADS **USE 38-1064**		

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The enclosed information is believed to be correct, Information may change ±without noticeqdue to	Revision A	
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	20/02/2007	

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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.

TYPICAL PROPERTIES OF SIL-PAD 400											
PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD						
Color	Gray		Gray		Visual						
Reinforcement Carrier	Fiberglass		Fiberglass		_						
Thickness (inch) / (mm)	0.007, 0.009		0.178, 0.229		ASTM D374						
Hardness (Shore A)	85		85		ASTM D2240						
Breaking Strength (lbs/inch) / (kN/m)	30		5		ASTM D1458						
Elongation (%45° to Warp and Fill)	54		54		ASTM D412						
Tensile Strength (psi) / (MPa)	3000		20		ASTM D412						
Continuous Use Temp (°F) / (°C)	-76 to 356		-60 to 180		_						
ELECTRICAL											
Dielectric Breakdown Voltage (Vac)	3500, 4500		3500, 4500		ASTM D149						
Dielectric Constant (1000 Hz)	5.5		5.5		ASTM D150						
Volume Resistivity (Ohm-meter)	1011		10 ¹¹		ASTM D257						
Flame Rating	V-O		V-O		U.L. 94						
THERMAL											
Thermal Conductivity (W/m-K)	0.9		0.9		ASTM D5470						
THERMAL PERFORMANCE vs PRESSURE											
Press	sure (psi)	10	25	50	100	200					
TO-220 Thermal Performance (°C/V	V) 0.007"	6.62	5.93	5.14	4.38	3.61					
TO-220 Thermal Performance (°C/V	8.51	7.62	6.61	5.63	4.64						
Thermal Impedance (°C-in²/W) (1.82	1.42	1.13	0.82	0.54						
Thermal Impedance (°C-in²/W) (2.34	1.83	1.45	1.05	0.69						
1) The ASTM D5470 test fixture was used. The reco	ded value incl	udes interfacia	I thermal resis	tance. These v	alues are prov	ided for					

Typical Applications Include:

Power supplies

• Power semiconductors

- Automotive electronics
- Motor controls

reference only. Actual application performance is directly related to the surface roughness, flatness and

- U.L. File Number E59150
- CAGE Number 55285

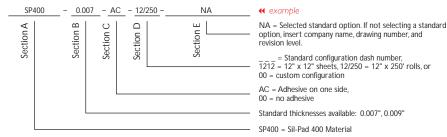
Configurations Available:

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

Building a Part Number

Standard Options

Sil-Pad® U.S. Patents 4.574.879; 4.602.125; 4.602.678; 4.685.987; 4.842.911 and others



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