



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features and Benefits

- Thermal conductivity:
SPT 400 – 0.9 W /m-K
SPT 1000 – 1.2 W /m-K
- For clip-mounted plastic power packages



SPT 400 and SPT 1000 (Sil-Pad Tubes) provide thermally conductive insulation for clip-mounted plastic power packages. Sil-Pad Tubes are made of silicone rubber with high thermal conductivity.

Sil-Pad Tube 1000 is best suited for higher thermal performance. Sil-Pad Tube 400 is ideal for applications requiring average thermal conductivity and economy.

Sil-Pad Tube 400 and Sil-Pad Tube 1000 are designed to meet VDE, U.L. and TUV agency requirements.

Typical Applications Include:

- Clip-mounted power semiconductors
- TO -220, TO -218, TO -247 and TO -3P

Configurations Available:

- TO -220, TO -218, TO -247 and TO -3P

Special thickness and diameters can also be ordered. Please contact Bergquist Sales.

TYPICAL PROPERTIES OF SIL-PAD TUBE 400

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Gray/Green	Gray/Green	Visual
Thickness / Wall (inch) / (mm)	0.012	0.305	ASTM D 374
Hardness (Shore A)	80	80	ASTM D 2240
Breaking Strength (lbs/inch) / (kN/m)	6	1	ASTM D 1458
Continuous Use Temp (°F) / (°C)	-76 to 356	-60 to 180	—
ELECTRICAL			
Dielectric Breakdown Voltage (Vac)	5000	5000	ASTM D 149
Dielectric Constant (1000 Hz)	5.5	5.5	ASTM D 150
Volume Resistivity (Ohm-meter)	10 ¹¹	10 ¹¹	ASTM D 257
Flame Rating	V-O	V-O	U.L.94
THERMAL			
Thermal Conductivity (W /m-K)	0.9	0.9	ASTM D 5470
Thermal Impedance (°C-in ² /W) (1)	0.6	0.6	ASTM D 5470

TYPICAL PROPERTIES OF SIL-PAD TUBE 1000

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Brown	Brown	Visual
Thickness / Wall (inch) / (mm)	0.012	0.30	ASTM D 374
Hardness (Shore A)	80	80	ASTM D 2240
Breaking Strength (lbs/inch) / (kN/m)	6	1	ASTM D 1458
Continuous Use Temp (°F) / (°C)	-76 to 356	-60 to 180	—
ELECTRICAL			
Dielectric Breakdown Voltage (Vac)	5000	5000	ASTM D 149
Dielectric Constant (1000 Hz)	4.5	4.5	ASTM D 150
Volume Resistivity (Ohm-meter)	10 ¹¹	10 ¹¹	ASTM D 257
Flame Rating	V-O	V-O	U.L.94
THERMAL			
Thermal Conductivity (W /m-K)	1.2	1.2	ASTM D 5470
Thermal Impedance (°C-in ² /W) (1)	0.4	0.4	ASTM D 5470

1) The ASTM D 5470 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.

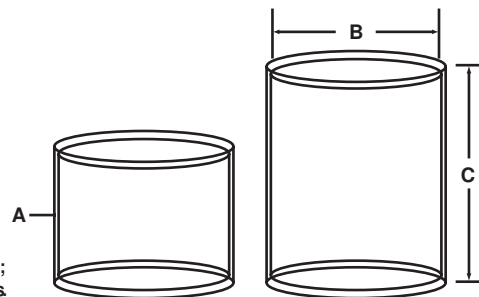
Standard Dimensions

- A = Wall Thickness: .305 mm (.012") + .10 mm / -0.0 mm (+.004" / -0.0")
 B = Inner Diameter: 11 mm (.433") or 13.5 mm (.532") ± 1.0 mm (± .039")
 C = Length: 25 mm (.985") or 30 mm (1.18") + 3.18 mm / -0.0 mm (+ .125" / - 0.0")

Special lengths are available. For more information, contact a Bergquist Sales Representative.

Ordering Procedure:

Sample: SPT 400 ___ - ___ - ___
 "A" - "B" - "C"



Sil-Pad®: U.S. Patents 4,574,879; 4,602,125; 4,602,678; 4,685,987; 4,842,911 and others.