



32 Mechanic Avenue Unit 211 • Woonsocket RI 02895

Tel. 401-767-2269

Fax 401-767-2255

www.microsorbtech.com

E-mail: engineer@microsorbtech.com

**Product
Bulletin**

**Series-S-TC
S-3000**

**MICROSORB S-TC
Thermally Conductive Gap Filler
Materials**

MICROSORB S-TC is a series of thermally conductive silicone pads used as a heat sinks or gap fillers.

Air trapped between a heat generating device and heat sink inhibits the efficient transfer of heat away from the area to the exterior substrate or air. S-TC are effective in dissipating the heat away from the hot spots to the exterior environment.

SPECIFICATIONS

Product	Color	Hardness Shore A	Thermal Conductivity W/mK	Thermal Impedance °C in ² /W	Dielectric Strength volts/mil	UL Recognized 94
S- TC-100	Light Blue	65	1.3	1.25 (0.0625")	450	HB
S - TC-100U (Uncured)	White	65 (Cured)	1.3 (Cured)	1.25 (0.0625") (Cured)	450	N/A
S-TC-3001	Red	5 – 10	1.6	1.2	300	V- O
S-TC-3001 HCT	Light Blue	5 – 10	3.0	1.2	300	V- 0
S-TC-3002	Light Grey	12 – 18	1.6	1.2	300	V-O
S-TC-3005	Red	< 5	1.6	1.2	300	V - O
S-TC-R10404	Green	13	0.30 – 0.65	6.0 – 1.0	100	V - 1

➤ Continuous Use Temperature is – 58° to 395°F (-50° to 200°C)

AVAILABILITY

Product

TC-100 18" width rolls. Thickness of 0.025", 0.032", 0.050", 0.062"

TC-3001 24" x 24" Sheets. Thickness of 0.020" to 0.250".

TC-R10404 Closed cell silicone sponge, compressible. Length is a continual roll. Thickness of 0.032" x 0.250".

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.



32 Mechanic Avenue Unit 211 • Woonsocket RI 02895

Tel. 401-767-2269

Fax 401-767-2255

www.microsorbtech.com

E-mail: engineer@microsorbtech.com

Pressure Sensitive Adhesive backing is available for TC-100 and R10404.

MICROSORB S-TC-3604

PROPERTY	RANGE	TEST METHOD
Color	Dark Gray	Visual
Thickness, mm	0.13 - 15	ASTM D374
Specific Gravity, g/cm ³	2.28 +/-0.2	ASTM D792
Hardness, Shore A	20 +/-5	ASTM D2240
Elongation, %	130 +/-13	ASTM D412
Tensile Strength, Kg/cm ²	8 +/-2	ASTM D412
Weight Loss, %	<1	@204°C/24 hr.
Dielectric Breakdown (V), KV	>7.0	ASTM D149
Surface Resistance, Ohm	10 ¹⁷	ASTM D257
Temperature Continuous, °C	-50 to +220	
Flame Rating, UL	94V-0	UL
Thermal Conductivity, W/m-k	3.2	ASTM D5470

From ferrishield:

Color visual black light gray dark gray brown
 Thermal Conductivity W/m-K 1.20 1.50 2.80 6.0
 Volume Resistivity M | •m 4.2 x 10⁴ 1.0 x 10⁶ 2.5 x 10⁴ 1.3 x 10⁶
 Withstand Voltage KV/mm•AC 16 14 13 13
 Specific Gravity gr/cm² 2.3 2.6 2.7 3.2
 Hardness Shore 00 48 49 53 52
 Elongation % 250 100 64 80
 Compression KgF @ 10% 13.0 12.5 11.0 10.7
 @ 50% sustain 40.0 39.2 44.0 50.6
 Sheet Size L x W x T 11.75 x 7.875 x .039 300 x 200 x 1.0 mm

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.