



E X C E L O N

S-Con[®] Silicone Tubing



Physical Properties**

Hardness, Shore A ±5	S-CON 50
Tensile Strength, psi	1100
Elongation at Break, %	375
Brittle Temperature, °F	-100
Max. Operating Temperature, °F	500 [^]
Comp. Set, 22 hrs. at 177°F, %	35
Tear Resistance (ppi minimum)	100

** Values listed are typical and are meant only as a guide to aid in design.
Field testing should be performed to find the actual values for your application.
[^] If used in an NSF application, the maximum operating temperature is limited to 350°F.

S-CON

ID (IN.)	OD (IN.)	WALL (IN.)	WORKING PSI AT 70°F*	BURST PSI AT 70°F	STANDARD LENGTH (FT.)	PART NO.
1/16	1/8	1/32	10	30	100	100084
1/16	3/16	1/16	20	60	100	100161
3/32	5/32	1/32	10	30	100	100315
3/32	7/32	1/16	15	45	100	100392
1/8	3/16	1/32	10	30	100	100469
1/8	1/4	1/16	20	60	100	100546
1/8	5/16	3/32	25	75	100	100623
1/8	3/8	1/8	-	-	100	100700
5/32	9/32	1/16	20	60	100	100854
5/32	11/32	3/32	20	60	100	100931
3/16	1/4	1/32	5	15	100	101008
3/16	5/16	1/16	20	60	100	101085
3/16	3/8	3/32	20	60	100	101162
3/16	7/16	1/8	15	45	100	101239
1/4	5/16	1/32	10	30	100	101393
1/4	3/8	1/16	5	15	100	101470
1/4	7/16	3/32	20	60	100	101547
1/4	1/2	1/8	15	45	100	101624
5/16	7/16	1/16	10	30	100	101778
5/16	1/2	3/32	10	30	100	101855
3/8	1/2	1/16	10	30	100	101932
3/8	9/16	3/32	10	30	100	102009
3/8	5/8	1/8	10	30	100	102086
3/8	3/4	3/16	15	45	100	102163
7/16	5/8	3/32	10	30	100	102240
1/2	5/8	1/16	5	15	100	102317
1/2	11/16	3/32	5	15	100	102394
1/2	3/4	1/8	10	30	100	102471
1/2	7/8	3/16	10	30	100	102548
5/8	3/4	1/16	-	-	100	102625
5/8	13/16	3/32	5	15	100	102702
5/8	7/8	1/8	5	15	100	102779
5/8	1	3/16	10	30	100	102856
3/4	1	1/8	5	15	50	103087
3/4	1-1/8	3/16	10	30	50	103164

* Performed on hydrostatic test equipment at ambient temperature; based on the ASTM D1599 method. Product samples are available upon request.

The Excelon Tube Snip Cutter is available for clean and easy tube cutting (Part No: 39000). Also available, Excelon Tube Snip Cutter Replacement Blades (Part No: 38000).

- Made from FDA-sanctioned ingredients
- Able to resist extreme temperature variation: -100°F to 500°F[^]
- Translucent natural color for visual contact with the flow
- Resilient, stretchable, and resistant to compression set
- Odorless, tasteless, and inert
- Good electrical and weatherability properties – resists U.V., ozone, gases, and moisture
- Red color industrial grade available through minimum order
- Listed by the National Sanitation Foundation (NSF 51)[^]
- 100% incineration approved by Scientific Ecology Group (S.E.G.)

The most outstanding property of S-CON is its **resistance to temperature extremes**. This, plus its good electrical properties and ability to self-extinguish, makes S-CON an **excellent choice for appliances and computers**. S-CON has a U.L. rating of UL94HB.

Peroxide-cured S-CON contains no sulfur or other acid-producing chemicals, which eliminates the possibility of staining, corroding, or deteriorating materials it contacts.

S-CON may be low-pressure steam sterilized inline or autoclaved at up to 250°F in a normal autoclaving cycle. However, if exposed to repeated steam sterilization or long-term high temperature or pressure, silicone will eventually relax, become gummy, and should be replaced.

NOTE: Care is recommended in the selection and application of fittings and clamps for S-CON. Sharp, barbed fittings or unlined metal clamps could tear into the tubing wall and cause possible failure.



Thermoplastic Processes, Inc.

1268 Valley Road, P.O. Box 188
Stirling, NJ 07980-0188

Ph: (888) 554-6400 • (908) 561-3000

Fax: (800) 874-3291 • (908) 753-6749

www.thermoplasticprocesses.com