



NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution



E X C E L O N

S-Con[®] Silicone Tubing



Physical Properties**

Hardness, Shore A ± 5
Tensile Strength, psi
Elongation at Break, %
Brittle Temperature, °F
Max. Operating Temperature, °F
Comp. Set, 22 hrs. at 177°F, %
Tear Resistance (ppi minimum)

S-CON
50
1100
375
-100
500[^]
35
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.



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