



Colex International Limited

Silicone Product Range

Silicone Tubing

Colex silicone is lightweight, flexible, resilient, stretchable and resistant to compression set.

Its ability to self extinguish makes it suitable for use with appliances and computers and it is also ideal for food and beverage lines due to the FDA approval of its raw materials. In addition to this, silicone has the ability to withstand extreme variations in its operating temperature and has excellent resistance to ozone and UV over long periods of time, so making it suitable for outdoor use in adverse weather conditions.

Even where space is restricted the bend radius allows installation of silicone tube without impeding the flow of the contents. The smooth bore allows unrestricted flow and the translucent colour allows full visibility.

Colex silicone is peroxide cured contains no sulphur or other acid producing chemicals, thus eliminating staining, corroding or deteriorating any other materials it comes into contact with.

The Colex silicone range may be low pressure steam sterilized in-line or auto-claved at up to 120°C during a normal autoclaving cycle.

It should be noted that when exposed to repeated steam sterilization or long term high pressure or temperature, silicone will eventually relax and become gummy. It should then be replaced.

Silbrade® & Silcon® are registered trademarks of NewAge Industries of Philadelphia USA.

Silcon®

Some of the many features of Colex unreinforced silicone tubing include:

- Made from FDA sanctioned ingredients.
- Able to resist extreme temperature variation: -37 °C to 260 °C.
- Translucent colour for visibility of the flow of the tube contents.
- Resilient, stretchable, and resistant to compression set.
- Odourless, tasteless and inert.
- It resists UV, ozone, gases and moisture.
- Good electrical properties.
- Listed by the National Sanitation Foundation (NSF 51) & incineration approved by the Scientific Ecology Group (S.E.G)

Silbrade®

Some of the many features of Colex reinforced silicone tubing include:

- Open mesh polyester braiding incorporated within the walls of silicone tubing.
- Made from FDA sanctioned ingredients.
- Translucent natural colour for visual contact with the flow.
- Able to resist extreme temperature variation: -62 °C to 175 °C.
- Odourless, tasteless and inert.
- Excellent resistance to weather - resists UV, ozone, gases, moisture and extreme temperature.
- Far higher pressure capabilities than similarly sized un-reinforced silicone tubing.
- Listed by the National Sanitation Foundation (NSF 51) & incineration approved by the Scientific Ecology Group (S.E.G)

CUSTOM MANUFACTURE—THE OPTIONS ARE ENDLESS

We can offer a number of customisations to make our stock products suit your needs. For example, printing to customer requirements including logos, long lengths on drums, cut lengths, non-standard colours & sizes, packing options.

There are also many other products that we can custom make just for you that may be better suited to your needs.

Please see our Custom Manufacture brochure or visit www.colexint.com/custom-manufacture for more details.

ORDERS MAY BE SUBJECT TO MINIMUM ORDER QUANTITIES

IMPORTANT NOTE: Whilst every effort is made to ensure that the above information is accurate and correct, the conditions under which Colex products are used are beyond our control and therefore recommendations are made without warranty or guarantee. Colex reserve the right to change specifications without prior notice.

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Colex International Limited

Silcon® Unreinforced Silicone Tube

Applications

Food handling and beverage lines, laboratory uses, insulation sleeving, thermal protection, adhesive lines, viscous material handling, instrumentation, drain hoses, appliances and computers, hot fill systems.

Temperatures *

-37°C to +260°C

Food Use

All raw materials used in the manufacture of silicone hose have FDA approval for use with food contact applications.

Physical Properties *

Hardness, Shore A ± 5	50
Tensile Strength, psi	1100
Elongation at Break, %	375
Brittle Temperature, °C	-37
Maximum Operating Temperature, °C	260 [^]
Comp. Set 22 hrs at 80°C, %	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 the application.
[^] If used in an NSF application the max operating temperature is limited to 176°C.

Part Number	Nominal ID		Nominal OD		Kgs/Coil	Bend Radius (mm) *	Lengths Available Ex Stock	Colours Available Ex Stock
	(ins)	(mm)	(ins)	(mm)				
Light Wall								
280-0084	1/16	1.6	1/8	3.2	0.211	25.6	30m	Translucent
280-0161	1/16	1.6	3/16	4.8	0.560	38.4	30m	Translucent
280-0315	3/32	2.4	5/32	4.0	0.281	32.0	30m	Translucent
280-0392	3/32	2.4	7/32	5.6	0.717	44.8	30m	Translucent
280-0469	1/8	3.2	3/16	4.8	0.351	38.4	30m	Translucent
280-0546	1/8	3.2	1/4	6.4	0.841	51.2	30m	Translucent
280-0854	5/32	4.0	9/32	7.1	0.980	56.8	30m	Translucent
280-1008	3/16	4.8	1/4	6.3	0.491	50.4	30m	Translucent
280-1085	3/16	4.8	5/16	8.0	1.120	64.0	30m	Translucent
280-1393	1/4	6.3	5/16	8.0	0.631	64.0	30m	Translucent
280-1470	1/4	6.3	3/8	9.5	1.400	76.0	30m	Translucent
280-1778	5/16	8.0	7/16	11.1	1.680	88.8	30m	Translucent
280-1932	3/8	9.5	1/2	12.7	1.960	101.6	30m	Translucent
280-2317	1/2	12.7	5/8	15.9	2.520	127.2	30m	Translucent
280-2625	5/8	15.9	3/4	19.1	3.080	152.8	30m	Translucent
280-3087	3/4	19.1	1	25.4	3.920	203.2	15m	Translucent
Medium Wall								
280-0623	1/8	3.2	5/16	8.0	1.470	64	30m	Translucent
280-0700	1/8	3.2	3/8	9.5	2.240	76	30m	Translucent
280-0931	5/32	4.0	11/32	8.7	1.680	69.9	30m	Translucent
280-1162	3/16	4.8	3/8	9.5	1.890	76	30m	Translucent
280-1239	3/16	4.8	7/16	11.1	2.800	88.8	30m	Translucent
280-1547	1/4	6.3	7/16	11.1	2.310	88.8	30m	Translucent
280-1624	1/4	6.3	1/2	12.7	3.360	101.6	30m	Translucent
280-1855	5/16	8.0	1/2	12.7	2.730	101.6	30m	Translucent
280-2009	3/8	9.5	9/16	14.8	3.150	118.4	30m	Translucent
280-2086	3/8	9.5	5/8	15.9	4.480	127.2	30m	Translucent
280-2394	1/2	12.7	11/16	17.5	3.990	140.0	30m	Translucent
280-2471	1/2	12.7	3/4	19.1	5.599	152.8	30m	Translucent
280-2779	5/8	15.9	7/8	22.2	6.719	177.6	30m	Translucent
Heavy Wall								
280-3164	3/4	19.1	1 1/8	28.6	6.299	228.8	15m	Translucent

* For use as a guide only

All silicone is supplied bagged and labelled, unreinforced silicone is unprinted.

Pressures: For pressure applications we recommend Colex reinforced Silbrade®. **Unreinforced Silcon® is NOT recommended for pressure applications.**

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Colex International Limited

Silbrade® Reinforced Silicone Hose

Applications

Food handling and beverage lines, laboratory uses, hot fill systems & deionised water.

Construction

Made from FDA approved materials reinforced with 1000 denier polyester fibre yarn.

Temperatures *

-62°C to +175°C

Food Use

All raw materials used in the manufacture of silicone hose have FDA approval for use with food contact applications.

Physical Properties *

Hardness, Shore A \pm 5 - Core	70
Hardness, Shore A \pm 5 - Cover	60
Tensile Strength, psi	1000
Elongation at Break, %	350
Brittle Temperature, °C	-62
Maximum Operating Temperature, °C	176



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 the application

Self extinguishing

Ozone and UV resistance

Contains no sulphur

Good bend radii

Colex reinforced Silbrade® is supplied printed with the product name, ID, OD, working temperature and NSF 51 for ease of identification.

Part Number	Nominal ID		OD (ins)	Kgs/Coil	Burst Pressure *		Bend Radius (ins) *	Lengths Available Ex Stock	Colours Available Ex Stock
	(ins)	(mm)			psi	Bar			
290-0149	3/16	4.8	0.447	3.088	648	44	3.58	30m	Translucent
290-0226	1/4	6.3	0.520	3.887	624	42	4.16	30m	Translucent
290-0303	5/16	8.0	0.592	4.736	549	37	4.74	30m	Translucent
290-0380	3/8	9.5	0.655	5.391	498	33	5.24	30m	Translucent
290-0457	1/2	12.7	0.800	7.271	423	28	6.40	30m	Translucent
290-0534	5/8	15.9	0.965	5.036	348	23	7.72	15m	Translucent
290-0611	3/4	19.1	1.100	6.022	273	18	8.80	15m	Translucent
290-0765	1	25.4	1.360	7.876	225	15	10.88	15m	Translucent

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All silicone is supplied bagged and labelled.

Pressures: Values given are based on the short term burst pressure of silicone.

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