VERSILON®
Engineered Versatility

Versilon® SPT-70 FB IB Tubing

REINFORCED SILICONE TUBING FOR FOOD AND BEVERAGE DISPENSING

Versilon® SPT-70 FB IB reinforced, platinum-cured silicone tubing is specifically designed for food and beverage dispensing applications. Safe to be in contact with food, all layers of Versilon® SPT-70 FB IB tubing are compliant with FDA, EU, and GB food contact regulations. The tubing imparts essentially no taste or odors to the transferred fluids. Its smooth inner surface reduces the risk of particle entrapment and inhibits protein binding and bacterial growth; cleaning and sterilization cycles become more effective as a result. Additionally, an improvement in fluid flow characteristics may occur from the reduced surface area and lowered absorption of fluids to the wall.

Versilon® SPT-70 FB IB tubing can easily withstand repeated SIP and CIP cleaning and sterilization cycles, making it ideal for repeat-use applications. Its flexibility, durability, and chemical and temperature resistance provide a unique combination of characteristics required in many food and beverage applications.

Low Extractables

Versilon® SPT-70 FB IB silicone tubing is manufactured with a platinum curing process designed to meet the most demanding requirements of food and beverage sanitary standards. Third party extractability tests have shown that Versilon® SPT-70 FB IB tubing has a low extractable content which helps maintain the integrity of the transported food and beverage media.*

Typical Applications

- Beverage dispensing
  - Soda, beer, coffee
- Food and dairy dispensing
  - Bottle filling, hot fill lines, food handling

*Use restrictions and limitations may apply.

Features and Benefits

- All layers compliant with FDA, EU, and GB food contact regulations*
- Consistently smooth inner surface limits particle entrapment
- Platinum-cured to minimize extractables
- Tough braid reinforcement permits use under elevated working pressures
- Withstands repeated CIP and SIP cleaning and sterilization

Regulatory Compliance

- FDA Food Additive Regulation 21 CFR 177.2600
- Regulation (EC) No 1935/2004 and French Order 11/25/1992
- China GB 4806.1, GB 9685, GB 4806.11
- NSF®-51 Certification

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Part Number	ID		OD		Wall Thickness		Length		Min. Bend Radius		Max. Working Pressure		Vacuum Pressure Rating	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(ft)	(m)	(in)	(mm)	73°F (psi)	23°C (bar)	73°F (inHg)	23°C (mmHg)
MHX001718	0.188	4.8	0.443	11.3	0.128	3.3	50	15.2	0.5	13	130	9.0	29.9	760
MHX001719	0.250	6.4	0.515	13.1	0.133	3.4	50	15.2	0.75	19	110	7.6	29.9	760
MHX001720	0.375	9.5	0.687	17.4	0.156	4.0	50	15.2	1.0	25	135	9.3	29.9	760
MHX001721	0.500	12.7	0.847	21.5	0.174	4.4	50	15.2	1.0	25	125	8.6	29.9	760

Working pressures are calculated at a 1:4 ratio relative to burst pressure using ASTM D1599.

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15 sec	D2240	74
Color	Visual	Translucent
Tensile Strength, psi (MPa)	D412	1300 (8.96)
Ultimate Elongation (%)	D412	550
Tear Resistance, lb-f/in (kN/m)	D1004	158 (27.7)
Specific Gravity	D792	1.2
Water Absorption, % at 73°F (23°C) for 24 hrs	D570	0.086
Compression Set Constant Deflection, % at 158°F (70°C) for 22 hrs	D395 Method B	5
Maximum Recommended Operating Temperature, °F (°C)	-	320 (160)
Brittleness by Impact Temperature, °F (°C)	D746	-112 (-80)
Low Temp Flexibility, °F (°C)	D380	< -103 (< -75)

NOTE ABOUT TESTING CONDITIONS: Unless otherwise noted, all tests were conducted at room temperature (72°F). Values show were determined on 0.075" thick extruded strip, 0.250" ID x 0.515" OD tubing, 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressure, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

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