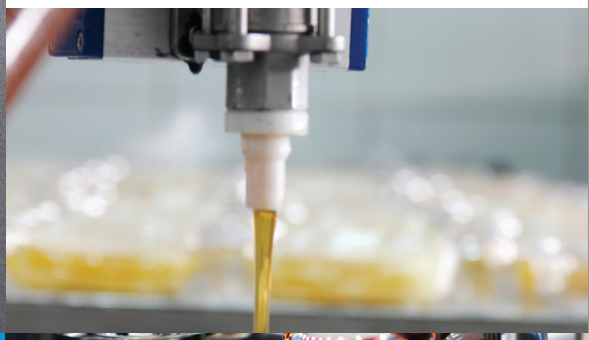
TYGON®
Excellence By Design



Tygon® SPT-3370 IB

Tubing for Food and Beverage Transfer Under Pressure

Designed to Maintain Fluid Purity Under Pressure

Braid reinforced for increased pressure resistance, Tygon® SPT-3370 IB silicone tubing is frequently specified in the most demanding applications requiring sanitary transfer of fluids. Its smooth inner surface reduces the risk of particle entrapment and inhibits excessive residue and microscopic bacterial buildup; cleaning and sterilization cycles may 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.

Tygon® SPT-3370 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.

Lower Extractable

Tygon® SPT-3370 IB silicone tubing is produced from a platinum curing process to meet the most demanding requirements of food and beverage sanitary standards.

In-house extractability tests have shown that Tygon® SPT-3370 IB tubing has a low extractable content. Lower extractable help to maintain the integrity of the transported food and beverage media.

Tygon® SPT-3370 IB tubing meets 3-A Sanitary Standard No. 18-01, FDA 21 CFR 175.300 and NSF 51 certification. Tygon® SPT-3370 IB silicone tubing has a Master File with the U.S. Food and Drug Administration.

Features and Benefits

- Consistently smooth inner surface limits particle entrapment
- Platinum cured to minimize extractable
- Tough braid reinforcement permits use under elevated working pressures
- Withstands repeated CIP and SIP cleaning and sterilization
- Custom color striping available

Typical Applications

- Beverage dispensing
- Food and dairy processing
  - Bottle filling
  - Hot fill lines
  - Food handling

Regulatory Compliance

- 3-A Sanitary Standard No. 18-01
- FDA 21 CFR 175.300
- NSF 51 certification

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Tygon® SPT-3370 IB

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Tygon® SPT-3370 IB

Part Number	ID	OD	Min. Bend Radius	Length	Max. Working Pressure		Vacuum Rating	
	(in.)	(in.)	(in.)	(ft.)	73°F (psi)*	320°F (psi)*	inHg at 73°F	inHg at 320°F
AHJ1718NSF	3/16	0.443	1/4	50	170	125	29.9	29.9
AHJ1719NSF	1/4	0.515	1/2	50	150	105	29.9	29.9
AHJ1720NSF	3/8	0.687	3/4	50	130	95	29.9	29.9
AHJ1721NSF	1/2	0.847	1-1/4	50	125	90	29.9	29.9
AHJ1722NSF	5/8	0.980	1-1/2	50	110	80	29.9	29.9
AHJ1671NSF	3/4	1.150	2-1/4	50	100	75	29.9	29.9
AHJ1724NSF	1	1.390	3-1/2	50	70	50	15.0	10.0
AHJ1725NSF	1-1/4	1.636	5-3/4	25	55	40	10.0	5.0
AHJ1726NSF	1-1/2	1.900	6-3/4	25	40	30	5.0	0.0
AHJ1798NSF	2	2.432	8-3/4	25	20	12	0.0	0.0

*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, 15s	D2240	70
Color	—	Translucent
Tensile Strength, psi (MPa)	D412	1,200 (8.3)
Ultimate Elongation, %	D412	500
Tear Resistance, lb-f/in (kN/m)	D624 Die B	250 (44)
Specific Gravity	D792	1.18
Water Absorption, % at 73°F (23°C) for 24 hrs.	D570	0.11
Compression Set Constant Deflection, % at 158°F (70°C) for 22 hrs. % at 347°F (175°C) for 22 hrs.	D395-03 Method B	3 10
Brittleness by Impact Temp., °F (°C)	D746	-112 (-80)
Maximum Recommended Operating Temp., °F (°C)	—	320 (160)
Dielectric Strength, v/mil (kV/mm)	D149	600 (24)
Tensile Modulus, at 200% psi (MPa)	D412	650 (4.5)
Tensile Set, %	D412	25

Unless otherwise noted, all tests were conducted at room temperature 73°F (23°C). Values shown were determined on 0.075" (1,905 mm) thick extruded strip or 0.075" (1,905 mm) thick molded ASTM plaques or molded ASTM durometer buttons. Size of tubing tested is 1/8" ID x 1/4" OD.

Sterilization Methods

Autoclavable

Gas – Ethylene Oxide

Radiation – Up to 5.0 MRad (50 Kilogray)

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.

TYGON® SPT-3370 IB TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

SAINT-GOBAIN

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