

Tygon[®] Food D-1070 Tubing

SILICONE DAIRY TUBING

Tygon[®] Food D-1070 smooth bore silicone tube has a low taste and odor profile, designed for dairy applications. Its smooth surface facilitates thorough cleaning (CIP and COP) and sanitization, ensuring optimal hygiene.

The Mark of Quality

Each foot of Tygon[®] Food D-1070 tubing includes a distinctive, embedded blue stripe—your assurance of genuine Tygon[®] quality. This visible mark confirms the tubing's authenticity as a premium-grade product developed specifically for raw milk handling.

Stability for Optimized Performance

Tygon[®] Food D-1070 tubing offers superior resistance to ozone and UV light. It performs reliably across a broad temperature range and is capable of handling full vacuum conditions (29.9 inHg) at room temperature without collapse, making it ideal for demanding dairy operations.

Typical Applications

- Raw milk transport lines



Features and Benefits

- Smooth inner surface facilitates cleaning
- Low taste and odor
- Withstands multiple cleaning cycles
- CIP and COP capable
- Performs reliably across a broad temperature range
- Highly translucent to permit visual inspection of milk flow

Regulatory Compliance*

- FDA Regulation 21 CFR 177.2600
- 3-A 18-03 compliance
- NSF[®]-51 certification

*For complete compliance information, including information on food types, contact conditions, and use restrictions, please refer to Saint-Gobain's food contact compliance statements (available upon request).



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Part Number	I.D. (in.)	O.D. (in.)	Wall Thickness (in.)	Length (feet)	Max. Working Pressure at 73°F (23°C) (psi)*†	Minimum Bend Radius (in.)	Vacuum Rating In. of Mercury at 73°F (23°C)
D-1070-563-5H	9/16	15/16	3/16	100	22	2	29.9
D-1070-625-5H	5/8	1	3/16	100	20	1-1/2	29.9
D-1070-750-5H	3/4	1-1/8	3/16	100	17	†	29.9
D-1070-875-6F	7/8	1-3/8	1/4	50	19	†	29.9
D-1070-1000-6F	1	1-1/2	1/4	50	17	3-1/4	29.9

*Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599.

†Available upon request.

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15 Sec	D2240	70
Color	-	Translucent
Tensile Strength, psi (MPa)	D412	1400 (9.7)
Ultimate Elongation, %	D412	540
Tear Resistance, lb-f/in. (kN/m)	D624 Die B	130 (22.8)
Specific Gravity	D792	1.18
Water Absorption, % 24 hrs. @ 23°C	D570	0.19
Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs. % @ 347°F (175°C) for 22 hrs.	D395-01 Method B	10 19
Brittleness by Impact Temp., °F (°C)	D746-98	-105 (-76)
Maximum Recommended Operating Temp., °F (°C)	-	392 (200)

Unless otherwise noted, all tests were conducted at room temperature 73°F. Values shown were determined on 0.075" thick extruded strip, 0.075" thick molded ASTM plaques or molded ASTM durometer buttons. Size of tubing tested is 1/8" I.D. x 1/4" O.D.

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 pressures, 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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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

Tygon® is a registered trademark of Saint-Gobain Performance Plastics Corporation.