



# Tygon<sup>®</sup> II

## Tubing for Milking Equipment

### Ultra-high Purity Characteristics with Extremely Low Extractables and Leachables

Tygon<sup>®</sup> II is manufactured in a climate-controlled environment and is produced from the highest quality silicone on the market. Because of its curing mechanism, the final product's consistency is very high, and it is more translucent and less tacky than other silicone products on the market.

Tygon<sup>®</sup> II tubing does not contain plasticizers or other additives and by products that can leach into the milk and cause toxicological issues. It is highly flexible, resistant to kinking and tearing.

This custom formulation is designed specifically to meet and exceed the dairy market's needs in regards to a number of key properties such as tear, vacuum resistance, and durability.

Tygon<sup>®</sup> II tubing offers a smoother surface that resists sticking, encrustation, and bacteria growth.

### Features and Benefits

- Flexibility during hot and cold temperature
- Reduced tackiness
- Durability for long and reliable service
- Smooth inner bore reduces potential for particle entrapment
- Translucent
- Fitting retention
- Pt Curing

### Regulatory Compliance

- FDA 21 CFR 177.2600
- 3-A, BfR
- EU Regulation 1935/2004
- French Order of November 25, 1992 on Silicone
- Japan MHLW Notification No. 370, Section 3-D
- China GB4806.1-94

## Tygon® II

Part Number	ID		OD		Wall Thickness		Length
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(ft)
TYGII01	9/16	14.29	15/16	23.81	3/16	4.76	100
TYGII02	5/8	15.88	1	25.40	3/16	4.76	100
TYGII03	3/4	19.05	1-1/8	28.58	3/16	4.76	100
TYGII04	7/8	22.23	1-3/8	34.93	1/4	6.35	100
TYGII05	1	25.40	1-1/2	38.10	1/4	6.35	100

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

## Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15 sec	D2240	68 (+/-3)
Opacity	—	Translucent
Ultimate Elongation, %	D412	950 MIN
Tear Resistance, lb-f/in (kN/m)	D1004	200 (35.0)
Specific Gravity	D792	1.18
Maximum Recommended Operating Temp., °F (°C)	—	212 (100)
Brittleness by Impact Temp., °F (°C)	D746	-112 (-80)
Low Temp. Flexibility, °F (°C)	D380	-85 (-65)
Tensile Stress, psi (MPa) @ 100% Elongation	D412	255 (1.7)

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 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.

**TYGON® II TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.**



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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.