

TYGON® C2-55-C

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## Tygon® C2-55-C

### A Highly Engineered, Patent-pending, Multi-layered Solution for Chemical Dispensing Applications

#### Chemical Dispensing for Industrial and Institutional Cleaning Applications

Tygon C2-55-C is a custom product with a highly engineered jacket, which provides excellent flow rate stability, while the advanced technology in the liner ensures chemical resistance without inhibiting the softness required for most chemical dispensing pumps. Custom sizes are available upon request.

#### Flow Rate Stability

Tygon C2-55-C is designed specifically for superior flow rate stability. This in turn reduces the number of visits a service technician would need to make to calibrate and repair field units. The chart in the back shows the stability of C2-55-C, where with and without back pressure, the flow rate is consistent over time pumped at a high RPM.



#### Features and Benefits

- Patent pending formulation designed specifically to increase flow rate stability
- A specialty formulation tubing liner softens the product and decreases wear during pump use while still providing superior chemical resistance

#### Typical Applications

- Laundry
- Warewashing
- Institutional cleaning
- Chemical transfer

\*For complete compliance information and appropriate use instructions, please refer to the detailed document of compliance.

## Tygon C2-55-C

ID (in)	OD (in)	Wall Thickness (in)	Min. Bend Radius (in)	Max. Working Pressure Rating		Vacuum Pressure Rating	
				73°F (23°C) (psi)	160°F (70°C) (psi)	inHg at 73°F (23°C)	inHg at 160°F (70°C)
1/8	1/4	1/16	1/2	15	10	29.9	29.9
3/16	5/16	1/16	1/2	11	7	29.9	25
1/4	3/8	1/16	1-1/2	8	5	20	10
3/8	1/2	1/16	2-1/4	6	4	10	10
1/2	3/4	1/8	2-1/2	8	5	25	15

## Typical Physical Properties

Property	ASTM Method	Value or Rating	
		Liner	Jacket
Durometer hardness (Shore A, 15s)	D2240	77	58
Color	—	Cream	
Specific gravity	D792	0.89	0.99
Tensile strength at break, psi (MPa)	D412	1,920	530 (3.7)
Max elongation (%)	D412	950	420
Compression set constant deflection (%; 158°F for 22hrs)	D395	39	33
Maximum recommended operating temperature	N/A	180°F (82°C)	

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.

## Relative Chemical Resistance Properties\*

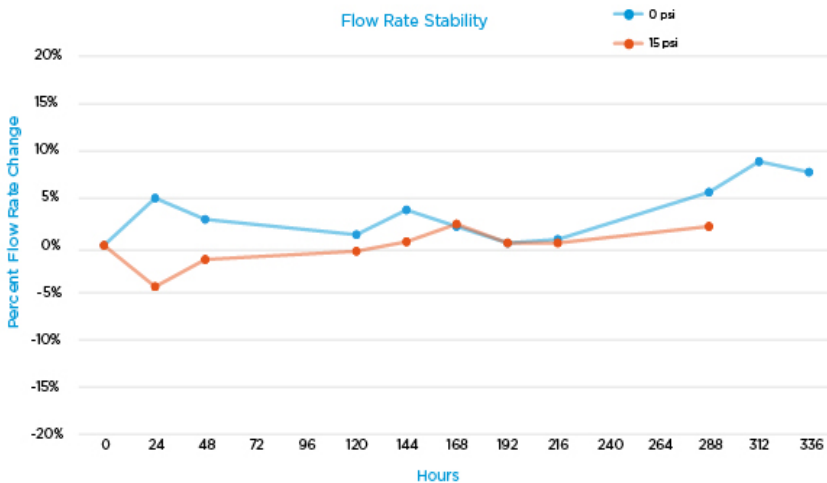
Tubing	Hypochlorite sanitizing solution	Strong surfactant solution (ionic and nonionic)	Sodium hydroxide-based warewashing detergent	Peracetic acid (5.8%)	Ethoxylated alcohol based rinse additive
Tygon® C2-55-C	E	E	E	G	G

E = Excellent G = Good F = Fair U = Unsatisfactory

\*All tests conducted at room temperature.

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.

**TYGON® C2-55-C 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.