

TYGON® SE-200

The only choice for phthalate-free flexible tubing

Chemically resistant and non-contaminating, Tygon® SE-200 provides the outstanding clarity and flexibility of Tygon® tubing combined with an inert fluoropolymer liner.

Tygon® SE-200 from Saint-Gobain Performance Plastics is now phthalate-free. Saint-Gobain is proud to be among the first companies to offer sustainable flexible tubing products. The bio-based Tygon® line combines the high performance standards customers demand with an eco-friendly tubing design.

Excellent Chemical Resistance

Without sacrificing the flexibility, glass-like clarity and outstanding bend radius for which Tygon® tubing is known, Tygon® SE-200 can handle many applications where flexible tubing of the past could not be used. Its FEP inner liner provides the ultimate in chemical resistance and can accommodate a wide variety of fluids from corrosives to MEK-based solvents. The inert liner limits potential of fluid contamination during transfer. Tygon® SE-200 will not impart odor or taste, making it well-suited for food and beverage use.

Meets FDA Criteria for Food Contact

Non-toxic, taste-free and odor-free, Tygon® SE-200 meets FDA 21 CFR Part 177.1550 Criteria for contact with food products.



Tygon® SE-200 Features/Benefits

- Crystal clarity
- Improved flexibility when compared to rigid fluoropolymer tubings
- Chemically resistant and inert
- Non-contaminating fluid path
- Meets FDA criteria for food contact
- Contains no BPA or phthalates

Typical Applications

- Chemical processing
- Pharmaceutical processing and filling
- Paint and solvent production and packaging
- Adhesive transfer lines
- Semiconductor processing
- Photographic processing equipment
- Beverage dispensing
- Ink and toner feed lines
- Fertilizer and pesticide distribution

Tygon® SE-200

Saint-Gobain Part Number	I.D. (inches)	O.D. (inches)	Wall Thickness, (inches)	Minimum Length, (inches)	Minimum Bend Radius (inches)	Max. Working Pressure	
						at 73°F (psi)	at 160°F (psi)
AJD00002	1/16	1/8	1/32	50	1/2	100	45
AJD00007	1/8	1/4	1/16	50	1	85	40
AJD00012	3/16	5/16	1/16	50	1-1/2	75	38
AJD00017	1/4	3/8	1/16	50	2	55	35
AJD00028	3/8	9/16	3/32	50	3-1/2	50	25
AJD00038	1/2	3/4	1/8	50	4	45	18
AJD00053	3/4	1	1/8	50	4-1/2	30	12

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	66
Tensile Strength, psi (MPa)	D412	2,200 (15.2)
Ultimate Elongation, %	D412	390
Tear Resistance, lb-f/inch (kN/m)	D1004	250 (43.8)
Specific Gravity	D792	1.21
Water Absorption, % 24 hrs. at 73°F (23°C)	D570	<0.01
Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395 Method B	59
Brittleness Temp., °F (°C)	D746	-32 (-36)
Maximum Recommended Operating Temp. °F (°C)	-	165 (74)
Tensile Stress @ 200% Elongation, psi (MPa)	-	1,379 (9.5)
Tensile Set, %	D412	57
Color	-	Clear

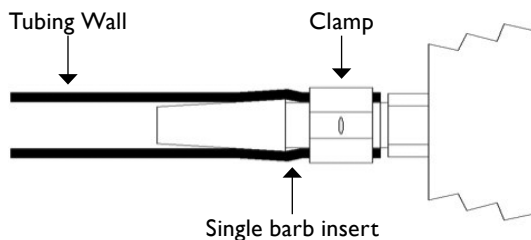
Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

Fittings for Tygon® SE-200 Tubing

Single barb insert fittings are recommended for use with Tygon® SE-200 tubing.

Single barb insert fittings have a land behind the barb that allows a clamp to be fastened over the tubing (see picture below). Note: Please be sure not to over-tighten the clamp as it might result in damage to the tubing.

Also: To facilitate entry of the fitting into the tubing, the outside diameter at the end of the tapered fitting must be smaller than the inside diameter.



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® SE-200 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.



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TYGON® is a registered trademark.



IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

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