

VERSILON™
Fluid Performance

Versilon™ SE-200

Phthalate-free Chemical Inert Transfer Tubing

Versilon™ 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. Versilon SE-200 combines the high performance standards customers demand with an eco-friendly tubing design.

Excellent Chemical Resistance

Offering flexibility, glass-like clarity and outstanding bend radius, Versilon 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 the potential of fluid contamination during transfer. Versilon 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, Versilon SE-200 meets FDA 21 CFR Part 177.1550 criteria for contact with food products.

Features and 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

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Versilon™ SE-200

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Versilon™ SE-200

Part Number	I.D. (in.)	O.D. (in.)	Wall Thickness (in.)	Length (ft.)	Min. Bend Radius (in.)	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 DI599.

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- <i>f</i> /in. (kN/m)	DI004	250 (43.8)
Specific Gravity	D792	1.21
Water Absorption, % 24 hrs. @ 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

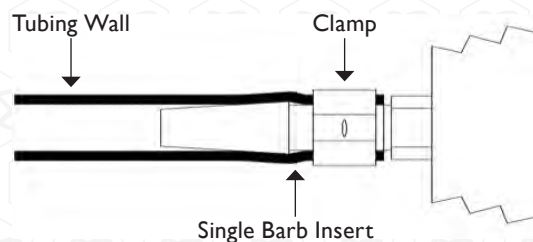
Unless otherwise noted, all tests were conducted at room temperature (73°F/23°C). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

Fittings for Versilon SE-200 Tubing

Single barb insert fittings are recommended for use with Versilon 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.

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.

VERSION™ SE-200 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.

Versilon™ is a trademark of Saint-Gobain Performance Plastics.