

# Versilon® TBOY Hose

## POLYPROPYLENE BRAIDED HELICALLY CONVOLUTED INNER TUBE ANTI-STATIC FLUOROPOLYMER HOSE

Saint-Gobain's Versilon® TBOY hose is constructed with a black electrostatic dissipating conductive PTFE convoluted inner tube and reinforced with polypropylene braid. The convoluted inner tube has open pitch helical convolutions to ensure smooth product flow. The polypropylene braid resists abrasion better than stainless steel reinforcements and burn potential from accidental contact is greatly reduced.

Versilon® TBOY hose's inner tube has a non-stick surface and cleans easily with steam, caustics, solvents or other cleaning agents. All standard sizes are fully vacuum rated at room temperature.

### Typical Applications

- Sanitary transfer
- Solvent transfer
- Drain and sample lines
- Semi-transparent sight gauges
- Corrosive environments

### Features and Benefits

- Polypropylene braid
- Ultraviolet stabilized
- Offers good chemical resistance against many types of acids
- Resists abrasion better than stainless steel reinforcements
- Lightweight, with minimum force to bend
- Easy to transport, connect and disconnect
- Less strain on adjoining equipment/scales
- Braid fraying minimized, reducing risk of hand injuries from wire braid punctures
- Does not conduct internal heat as readily as stainless steel braided hoses
- Burn potential from incidental contact greatly reduced

### Regulatory Compliance

- USDA
- US Pharmacopeia Class VI



# Versilon® TBOY Hose

## Versilon® TBOY Hose Specifications

Part Number	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F		Weight	
	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in)	(mm)	(in)	(mm)	(lb/ft)	(kg/m)
12TBOY	3/4	19.1	1-3/8	34.9	250	1.72	1,000	6.89	2.75	69.9	29.9	760	0.23	0.34
16TBOY	1	25.4	1-1/2	38.1	250	1.72	1,000	6.89	4.00	101.6	29.9	760	0.30	0.45
20TBOY	1-1/4	31.8	1-7/8	47.6	200	1.38	800	5.52	4.50	114.3	29.9	760	0.50	0.74
24TBOY	1-1/2	38.1	2-1/8	54.0	200	1.38	800	5.52	5.00	127.0	29.9	760	0.55	0.82
32TBOY	2	50.8	2-5/8	66.7	150	1.03	600	4.14	6.00	152.4	29.9	760	0.80	1.19
40TBOY	2-1/2	63.5	3-3/8	85.7	120	0.83	480	3.31	12.00	304.8	29.9	760	1.00	1.49
48TBOY	3	76.2	4	101.6	100	0.69	400	2.76	13.00	330.2	29.9	760	1.35	2.01
64TBOY	4	101.6	CF	CF	CF	CF	CF	CF	CF	CF	29.9	760	CF	CF

NOTE: Weights and outside diameter dimensions are nominal. Data given is for hose only. End fitting vs. hose pressure limitations must be considered and the lower of the two ratings must be used on assemblies. CF = Consult factory.

### Important:

**Burst Pressure** ratings at ambient 70°F (21°C). See applicable notes below on vacuum/pressure ratings at temperatures other than ambient.

**Working Pressure** is given at room temperature. Decrease working pressure to 40 psig all sizes above 175°F.

**Vacuum Rating** all sizes = 29.9" Hg at 70°F. Decrease vacuum rating 1% for every 2°F above 150°F. 1-1/4" rated at 26" Hg, 1-1/2" rated at 24" Hg, 2" rated at 20" Hg when installed less than 2X minimum bend radius.

## Construction

Inner Tube:	Black electrostatic dissipating conductive PTFE			
Reinforcement:	Polypropylene braid -Each strand of large diameter (denier) polypropylene monofilament is twisted and subsequently twined prior to braiding -Tested for maximum abrasion and chemical resistance -Tightly woven braid offers excellent abrasion resistance			
Temperature Rating:	-40°F to +250°F -40°C to +121°C			
Maximum Length:	3/4"	70'	2"	50'
	1"	65'	2-1/2"	30'
	1-1/4"	45'	3"	30'
	1-1/2"	70'	4"	20'

## Fitting Options

### Versilon® Crimp Style Fittings

- Over 40 styles of stocked crimp-style fittings in a wide range of materials
- Standard: 316L stainless steel (wetted surfaces)
- Flare-Thru fitting technology available:
  - 150 lb. lap-joint style flanged
  - Female cam and groove
  - Sanitary clamp style
  - 304 and 316 stainless steel flanges available

### Common Media

- General chemical transfer
- Hexane
- Caustic solutions

**Limited Warranty:** For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

[www.ics.saint-gobain.com](http://www.ics.saint-gobain.com)



Saint-Gobain  
210 Harmony Road  
Mickleton, NJ 08056  
USA



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 registered trademark of Saint-Gobain Performance Plastics Corporation.