



VENABIO[®]


PTFE


This is a fluoropolymer tubing especially recommended for the most aggressive chemicals, pressurized gas transfer and abrasive particles in the pharmaceutical and biopharma processes.


This tubing is characterized by its high transparency, which facilitates visual inspection of fluid flow. It is also characterized by its semi-flexible nature, which allows for easier installation and integration into complex systems.


- 


Roll length
Available in 25ft
- 

Clean room
Produced under environmentally controlled conditions.
- 

Temperature
-200°C / +205°C
(-328°F / +421°F)
- 

Double Bag
Double bagged under vacuum
- 

Universal
Universal chemical compatibility
- 

Low permeability
Pressurized gas transfer
- 

Animal free
Animal derived component free

MATERIAL

Polifluorotetraethylene.

Sourcing ¹	Units	VENA PTFE TECH 01
Density	g/cm ³	2,1725 ± 0,0075 (ASTM D 4895)
Extrusion pressure	Mpa	37.0 ± 5.0 (Internal Method)
Moisture	% / %(m)	≤ 0,008 (ASTM D 4895)
Average particle size	µm	600 ± 100 (ASTM D 4895)

Sourcing ¹	Units	VENA PTFE TECH 02
Density	g/cm ³	2,165 ± 0,010 (DIN EN ISO 12086)
Extrusion pressure	Mpa	50,0 ± 8,0 (ASTM D 4895)
Moisture	% / %(m)	0,010 ± 0,010 (Internal Method)
Average particle size	µm	400 ± 150 (ISO 13320)

STERILIZATION

- Autoclave²
- Dry heat
- CIP
- SIP²
- Ethylene oxide
- Hydrogen peroxide

1: To ensure reliable stock availability and supply chain security, VENABIO® PTFE tubing is dual-sourced using two approved raw materials, VENA PTFE TECH 01 and VENA PTFE TECH 02. The only distinction between these two sources is their supplier origin; both are composed of the exact same polytetrafluoroethylene (CAS: 9002-84-0). This substance is used in its 100% pure form, strictly without any mixtures or additives, ensuring that the tubing maintains identical technical specifications and consistent performance regardless of the raw material source.

2: It's the responsibility of the end-user to assess the risk. Compatible method for a few cycles since product is heat sensitive.

BIOCOMPATIBILITY ³

- USP 88 (Class VI) – Raw material is compliant
- FDA CFR 21 177.1550 – Raw material is compliant
- EC 1935/2004, EU 10/2011 Compliant
- RoHS (Restriction of Hazardous Substances) Compliant
- TSCA (Toxic Substances Control Act) Compliant
- SVHC (Substances of Very High Concern) Compliant
- REACH (Registration, Evaluation, Authorization and restriction of Chemicals) Compliant

3: ADDITIONAL INFORMATION

Bisphenol A (BPA) Free
 Natural rubber latex Free
 Natural rubber latex Free
 GMOs (Genetically modified organisms) Free
 Phthalates Free
 PFOA salts and PFOA-related compounds Free
 ADI (Animal Derived Ingredients) Free
 TSE/BSE Free
 Melamine Free
 Glycerin Free

Reference	ID	OD	Wall	Working Pressure	Burst Pressure	Bending Radius
	mm (inches)	mm (inches)	mm (inches)	(Bar/PSI at 20°C)	(Bar/PSI at 20°C)	(mm, inches)
922012000082	0,8 (1/32)	1,6 (1/16)	0,4 (1/63)	NDA	NDA	NDA
922012000204	1,6 (1/16)	3,2 (1/8)	0,8 (1/32)	NDA	NDA	NDA
922012000305	3,2 (1/8)	5,2 (13/64)	1 (3/76)	NDA	NDA	NDA
922012000406	4 (3/19)	6 (13/55)	1 (3/76)	18 (261)	54 (783)	36 (1 5/12)
922012010507	4,8 (1/5)	6,8 (15/56)	1 (3/76)	NDA	NDA	NDA
922012000507	5 (12/61)	7 (8/29)	1 (3/76)	15,9 (230)	47,6 (691)	49 (1 13/14)
922012000608	6 (13/55)	8 (23/73)	1 (3/76)	12,9 (187)	38,6 (560)	64 (2 13/25)
922012010608	6,4 (1/4)	8,4 (1/3)	1 (3/76)	NDA	NDA	NDA
922012010810	7,9 (5/16)	9,9 (25/64)	1 (3/76)	NDA	NDA	NDA
922012000810	8 (23/73)	10 (37/94)	1 (3/76)	10,2 (148)	30,7 (445)	100 (3 15/16)
922012010102	9,5 (3/8)	11,5 (29/64)	1 (3/76)	NDA	NDA	NDA
922012001012	10 (37/94)	12 (43/91)	1 (3/76)	9,3 (135)	27,9 (405)	144 (5 2/3)
922012001214	12 (43/91)	14 (43/78)	1 (3/76)	NDA	NDA	196 (7 48/67)
922012001315	12,7 (1/2)	14,7 (37/64)	1 (3/76)	NDA	NDA	NDA

Additional dimensions not included in the table may be available upon request. Please contact your designated sales representative for further information. This technical data sheet applies to all VENABIO® PTFE tubes with reference 922012*.

CONTACT

