



VENABIO®


FEP


This is a high-performance fluoropolymer tubing designed to make it especially suitable for demanding pharmaceutical and biopharma processes such as the transfer of aggressive chemicals, pressurized gases and abrasive particles, ensuring safety and reliability.


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)
- 

Universal
Universal chemical compatibility
- 

Low permeability
Pressurized gas transfer
- 

Animal free
Animal derived component free
- 

Radiostable
Gamma sterilization available
- 

Double Bag
Double bagged under vacuum

MATERIAL

Fluorinated ethylene propylene.

Sourcing ¹	Units	VENA FEP TECH 01
Melting point	°C	258 ± 7 (DIN EN ISO 12086)
Density	g/cm ³	2.14 ± 0.02 (DIN EN ISO 12086)
MFI 372-C/5kg	(g/10ml)	2.9 ± 0.8 (DIN EN ISO 1133)
Bulk Density	(g/l)	1250 ± 150 (DIN EN ISO 60)

Sourcing ¹	Units	VENA FEP TECH 02
Melting point	°C	265 ± 15 (ASTM D4591 ISO 20568-2)
Density	g/cm ³	2.145 ± 0.025 (ASTM D792 ISO 1183)
Melt Flow Rate	(g/10 min)	3.0 ± 0.5 (DIN EN ISO 12086)
Tensile Strength	Mpa	≥ 24 (ASTM D638 ISO 12086-2)

STERILIZATION

- Autoclave²
- CIP
- SIP²
- Ethylene oxide
- Hydrogen peroxide
- Gamma (25kGy)³

1: To ensure reliable stock availability and supply chain security, VENABIO® FEP tubing is dual-sourced using two approved raw materials, VENA FEP TECH 01 and VENA FEP TECH 02. The only distinction between these two sources is their supplier origin; both are composed of the exact same fully fluorinated copolymer of tetrafluoroethylene and hexafluoropropylene (CAS No. 25067-11-2). This copolymer 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.

3: Sterilization available prior to shipment.

BIOCOMPATIBILITY ⁴

- USP 88 (Class VI) – Raw material is compliantFDA 21 177.1550
- 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

4 ADDITIONAL INFORMATION

Bisphenol A (BPA) Free
 Nitrosamine and N-nitrosatable compounds Free
 Natural rubber latex Free
 GMOs (Genetically modified organisms) Free
 Phthalates Free
 PFOA Free
 ADI (Animal Derived Ingredients) Free
 TSE/BSE Free

Reference	ID	OD	Wall	Working Pressure	Burst Pressure	Bending Radius
922011*	mm (inches)	mm (inches)	mm (inches)	(Bar/PSI at 20°C)	(Bar/PSI at 20°C)	(mm, inches)
922011000082	0,8 (1/32)	1,6 (1/16)	0,4 (1/63)	27 (392)	81 (1175)	6,4 (1/4)
922011000204	1,6 (1/16)	3,2 (1/8)	0,8 (1/32)	27 (392)	81 (1175)	12,7 (1/2)
922011000305	3,2 (1/8)	5,2 (13/64)	1(3/76)	20 (290)	60 (870)	27,0 (1 2/31)
922011000406	4 (3/19)	6 (13/55)	1(3/76)	18 (261)	54 (783)	36,0 (1 5/12)
922011000507	4,8 (1/5)	6,8 (15/56)	1(3/76)	15,9 (230)	47,6 (691)	46,2 (1 32/39)
922011010507	5 (12/61)	7 (8/29)	1(3/76)	NAD	NAD	NAD
922011010608	6 (13/55)	8 (23/73)	1(3/76)	NAD	NAD	NAD
922011000608	6,4 (1/4)	8,4 (1/3)	1(3/76)	12,9 (187)	38,6 (560)	70,6 (2 7/9)
922011000810	7,9 (5/16)	9,9 (25/64)	1(3/76)	NAD	NAD	NAD
922011010810	8 (23/73)	10 (37/94)	1(3/76)	NAD	NAD	NAD
922011001012	9,5 (3/8)	11,5 (29/64)	1(3/76)	9,3 (187)	27,9 (405)	132,3 (5 6/29)
922011011012	10 (37/94)	12 (43/91)	1(3/76)	NAD	NAD	NAD
922011001214	12 (43/91)	14 (43/78)	1(3/76)	NAD	NAD	NAD
922011001315	12,7 (1/2)	14,7 (37/64)	1(3/76)	7,4 (107)	22,1 (320)	216,1 (8 34/67)

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® FEP tubes with reference 922011*.

CONTACT

