



FEP-COR

Corrugated FEP Tubing

Product Description

Grayline FEP-COR tubing is made from a semi-rigid, natural color, FDA-approved fluoropolymer resin. It offers the same chemical and electrical properties of straight walled FEP tubing. The cuffs (straight ends) are made to accept standard barbed fittings and may be flared or expanded to permit shrink-tight connections. It can also be extended or compressed without affecting the tube I.D. Grayline FEP-COR is manufactured in an industrial atmosphere, so sterilization is recommended for clean-flow applications. Because of the annular corrugations, it may not be possible to remove all traces of particulate from the tubing. For best cleaning results, the tube should be stretched to its maximum length and held vertically (direction of flow: down). FEP-COR is also available with Kevlar® overbraiding (Sizes 1/4"-7/8"). This will permit a minimum increase of six times the listed pressures.

Standard Packaging: Coils

Standard Color: Natural (Clear/Translucent)

Custom Services: Cut Length, Size, Color, Overbraided, and Heat-Form.

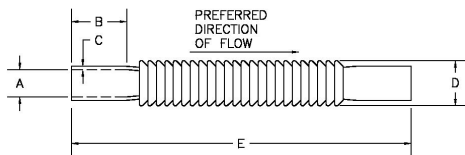
Specifications

- FDA Title 21 (Material Only)
- EU Directive 2011/65/EU (RoHS2)

Features

- Operating Temperature is -170°C to 204°C
- Low Coefficient of Friction
- Nearly Zero Bend Radius (Easily Flexed)
- Lead Free
- Plasticizer-Free
- Heat Sealable

PROPERTY	TYPICAL VALUE
Durometer Hardness, Shore D	50-55
Tensile Strength (psi)	3,500
Elongation (%)	325
Brittleness Temperature (°C)	<-170
Min. Continuous Service Brittle Temperature (°C)	-73
Maximum Continuous Service Temperature, Zero Pressure (°C)	93
Vacuum Service Rating (inches Hg)	29.9
Bend Diameter	1/2 of tubing I.D.
Extension/Compression Length Ratio:	2 to 1



Note: Optimal flow is achieved and turbulence minimized by passing fluids through FEP-COR in the direction of the corrugation angles (as illustrated).

"E" Dimension to be specified at time of order. Maximum overall available length: 12 FT (Including Cuffs)

"A" Maximum ID (IN.)	"B" Cuff Length (IN.)	"C" Wall Thickness (IN.)	"D" Reference (IN.)	Working PSI @ 70°F	Burst PSI @ 70°F
1/4	3/4	.015	3/8	62	248
3/8	1	.020	9/16	50	200
1/2	1	.025	3/4	42	168
5/8	1	.025	15/16	37	148
3/4	1-1/2	.030	1-1/16	30	120
7/8	1-1/2	.030	1-1/4	25	100
1	2	.035	1-3/8	20	80
1-1/2	2	.035	1-13/16	15	60
2	2	.040	2-5/8	12	48

The values listed in this bulletin, to the best of our knowledge, are accurate. They are typical performance results and are not intended to be used as design data. We disclaim all liability in connection with the use of information contained herein or otherwise.