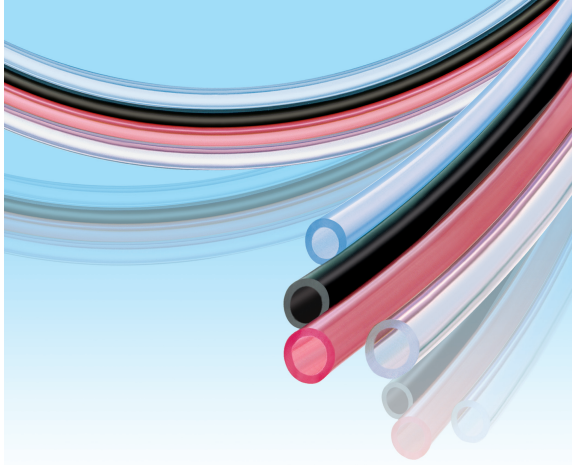


# FEP

# FEP Tubing



## Product Description

FEP (fluorinated ethylene propylene) is a tough, flexible copolymer of tetrafluoroethylene and hexafluoropropylene. It is often used for flexible tubing and fluid processing equipment when chemical resistance, high purity, and low stiffness are required. FEP has outstanding electrical properties and UV resistance.

*Standard Packaging: Coils or Reels*

*Standard Color: Natural (Clear/Translucent), colorful*

*Custom Services: Cut Length, Size, Convolved & Coiled Hose*

## Features

- Very high resistance to chemicals and solvents
- Very high electrical resistance
- High working temperature of +200 °C
- More flexible than PTFE.
- Excellent Flame Resistance
- Very low friction.,etc

## Standard Metric Sizes

I.D. (mm)	OD (mm)	Wall (mm)	Bend Radius (Inches)	Max. Working PSI at 72°F
2.0	4.0	1.0	1-1/2"	464
3.0	5.0	1.0		
4.0	6.0	1.0	1-3/4"	309
5.0	7.0	1.0		
6.0	8.0	1.0	2-1/2"	232
6.0	9.0	1.5		
7.0	9.0	1.0		
8.0	10.0	1.0	2-3/4"	186
9.0	11.0	1.0		
9.0	12.0	1.5		
10.0	12.0	1.0	4"	155
12.0	14.0	1.0		
14.0	16.0	1.0		

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	Property	Specification	Unit		
<b>General</b>	Continuous service temperature	Maximum	°C	200	
			°F	392	
	Chemical resistance		-	Excellent	
	Specific gravity	D 792	-	2.15	
<b>Electrical</b>	Dielectric constant	D 150 at 10 <sup>3</sup> Hz	-	2.1	
		D 150 at 10 <sup>6</sup> Hz	-	2.1	
	Dielectric dissipation factor	D 150 at 10 <sup>3</sup> Hz	-	0.0001	
		D 150 at 10 <sup>6</sup> Hz	-	0.0008	
	Dielectric strength (short term) 10 mils film	D 149	Volt/mil	2 000	
	Volume resistivity	D 257	Ohm-cm	>10 <sup>18</sup>	
<b>Enviromental</b>	Water absorption	D 570	%	< 0.01	
	Weather resistance	-	-	Excellent	
	Oxygene index	D 2863	%	> 95	
	Flammability	UL 94	-	V-0	
<b>Mechanical</b>	Tensile strength	D 1708, D 638	psi	3 500	
	Elongation	D 1708, D 638	%	300	
	Compressive strength	D 695	psi	2 200	
	Impact strength	D 256 at +23°C	Ft-Lb/in	No Break	
	Flexural Modulus	D 790 at +23°C	psi	95 000	
	Tensile Modulus	D 638	psi	50 000	
	Hardness	D 2240	-	D-55	
<b>Thermal</b>	Melting point		°C	270	
			°F	518	
	Thermal conductivity	C-177	BTU/hr/ft <sup>2</sup> /°F. in	1.4	
	Deflection temperature 66 psi 264 psi	D 648	°C		59
					57
	Deflection temperature 66 psi 264 psi	D 648	°F		138
				134	