

# Kynar® PVDF & FEP

## Specifications

**Temperature Range**  
-40° F to +180° F

**Vacuum Rating**  
To 28" Hg

**Diameter Tolerance**  
±.005"

**Hardness**  
65 Shore D

**Tube Markings**  
None

**Working Pressure**  
4:1 Safety Factor

**Resin Compliance**  
FDA, USPI  
UL 94 V0, NSF-51

**Suggested Fittings**  
Push-In, Compression

## Kynar® Polyvinylidene Fluoride – PVDF

**K**ynar® PVDF compound is an economical alternative to Teflon® (PTFE, PFA, and FEP) tubing for applications not requiring heat resistance. Kynar possesses excellent resistance to a wide range of chemicals. The high purity material is the ideal tubing for a variety of applications requiring an odorless and tasteless tube.

There are multiple grades of Kynar resins available. Some of these are used in rigid pipe applications. Freelin-Wade uses a flexible grade.

For more information about Kynar, refer to the Kynar Website: [www.kynar.com](http://www.kynar.com)  
You can also refer to our Chemical Resistance Chart on page 38.

## Features

Resists:

- Acids
  - Alcohols
  - Aliphatics
  - Aromatics
  - Mild Bases
  - Chloride
  - Halogen
  - Fungus
  - Out-gassing
  - Radiation
  - UV Light
- Sterilizable by Gamma Radiation or Ozone.  
• Resists fungal growth per MS 810B, Method 508 testing.

Kynar



## Specifications

**Temperature Range**  
-100° F to +400° F  
-73° to 204° C

**Vacuum Rating**  
To 28" Hg

**Diameter Tolerance**  
±.005"

**Hardness**  
57 Shore D

**Tube Markings**  
None

**Working Pressure**  
5:1 Safety Factor

**Resin Compliance**  
FDA Food Contact  
UL 94 V0, USP VI  
ASTM D 3296-03

**Suggested Fittings**  
Flare, Compression,  
Push-In

## Fluorinated Ethylene Propylene – FEP

**F**reelin-Wade's FEP tubing (compare to DuPont's® Teflon®) is one of the most durable and versatile flexible plastic tubes that you can buy. FEP, or fluorinated ethylene propylene, is an economical choice for applications requiring chemical resistance or exposure to a wide range of temperatures. Freelin-Wade's FEP is extremely flexible, making it an ideal choice for self-retracting coils. FEP is also available in a variety of packaged lengths.

Applications include chemical processing, laboratory applications, medical devices, water purification, food processing and automotive paint spray.

## Features

- 100% virgin grade high performance resin designed to resist stress cracking
- Low permeability
- High thermal stability and UV resistant
- Non-flammable/Self-extinguishing
- Superior electrical insulation properties
- Chemically inert to most industrial chemicals and solvents
- Available in colors



FEP  
Coiling:  
available  
as a variation

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-681- ___ 100' Bag	1C-681- ___ 500' Reel	1/8"	1/16"	.030"	10	300 PSI	125 PSI	0.71	3/16"	PI, C
1B-681- ___ 1000' Reel										
1A-681- ___ 2500' Reel										
1J-682- ___ 100' Bag	1B-682- ___ 500' Reel	1/4"	.170"	.040"	10	165 PSI	70 PSI	2.03	3/4"	PI, C
1A-682- ___ 1000' Reel										
1J-683- ___ 100' Bag	1A-683- ___ 500' Reel									
1J-684- ___ 100' Bag										
1A-684- ___ 250' Reel	1AA-684- ___ 500' Reel	1/2"	3/8"	.062"	10	130 PSI	55 PSI	6.61	2-1/8"	PI, C

**Metric Sizes**

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-692- ___ 100' Bag	1B-692- ___ 500' Reel	6	4	1	10	195 PSI	115 PSI	1.88	15.9 mm	PI, C
1A-692- ___ 1000' Reel										

**Variations Available:** Coiling • Colors • Cutting • Printing • Packaging • Sizes

**Fluorinated Ethylene Propylene - FEP**

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C				
1J-900- ___ 100' Bag	1C-900- ___ 500' Reel	1/8"	1/16"	.030"	10	420 PSI		0.9	1/2"	PI, C
1B-900- ___ 1000' Reel										
1A-900- ___ 2500' Reel										
1J-901- ___ 100' Bag	1B-901- ___ 500' Reel	1/4"	3/16"	.030"	10	210 PSI		2.0	1.75"	PI, C
1A-901- ___ 3000' Reel										
1J-902- ___ 100' Bag	1B-902- ___ 500' Reel									
1A-902- ___ 1000' Reel										
1J-903- ___ 100' Bag	1A-903- ___ 1000' Reel	3/8"	1/4"	.062"	10	300 PSI		5.7	1"	PI, C
1J-904- ___ 100' Bag	1A-904- ___ 1000' Reel									

**Metric Sizes**

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C				
1J-941- ___ 100' Bag	1C-941- ___ 500' Reel	4	2	1	10	450 PSI		1.4	1.5"	PI, C
1B-941- ___ 1000' Reel										
1A-941- ___ 2500' Reel										
1J-942- ___ 100' Bag	1B-942- ___ 500' Reel	6	4	1	10	301 PSI		2.3	1"	PI, C
1A-942- ___ 2500' Reel										
1J-943- ___ 100' Bag	1A-943- ___ 1500' Reel									
1J-944- ___ 100' Bag	1A-944- ___ 1500' Reel	10	8	1	10	125 PSI		4.1	2.75"	PI, C

**Variations Available:** Coiling • Colors • Cutting • Packaging • Jacketing

