

high performance fluoropolymer and fluoroplastic tubing and pipe



Altaflo is an innovative producer of high performance fluoropolymer and fluoroplastic tubing and pipe.

All Altaflo products are manufactured using 100% virgin grade high performance resins to provide the best physical properties for your application.

We carry a broad range of stock products in PTFE, FEP, PFA, UHP PFA, PVDF and THV materials that are available to ship same day from our extensive inventory.

Altaflo is able to quickly and cost-effectively produce custom items from these and other fluoropolymer or fluoroplastic resins to meet your requirements.

Please contact our sales department for details.

Contact Altaflo

by phone:

973-663-3303

by fax:

973-663-3323

by mail:

25 weldon road
lake hopatcong, nj 07849

by email:

sales department:
sales@altaflo.com

customer service:

customerservice@altaflo.com



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Transport Critical Fluid With ConfidenceSM

high performance fluoropolymer and fluoroplastic tubing and pipe

Ordering Information

Minimum Order:

We suggest a minimum order of \$50.00 but will work to meet your specific requirements. Should you need to place a smaller order we will add a \$5.00 handling fee to accommodate your request.

Terms:

1%-10, Net 30 days

Packaging:

Our standard product packaging is 25 ft., 50 ft., 100 ft., 500 ft. and 1000 ft. Longer lengths and custom lengths are also available at no additional charge for coiled product. Product on plastic reels may require an additional charge if length requirement is less than standard for reel size.

Custom Requirements:

We welcome the opportunity to provide our customers with product for their specific requirements. If a custom size or a non-listed fluoropolymer or fluoroplastic material is required, please contact our sales department for assistance.

Returns:

25% restocking charge on material returned due to customer change – please call for an RMA number prior to returning product to insure that correct and timely credit is issued. If a product must be returned due to an error on the part of Altaflo, please also contact us for an RMA number and we will issue a call tag to pick up the material from your location.

Ordering with an Altaflo Part Number **200-0375-062-0C**

ALTAFLUOR® Series:

100 = PTFE
200 = FEP
300 = THV
350 = THV FLEX
400 = PFA
450 = HP PFA
480 = UHP PFA
500 = PVDF
550 = PVDF FLEX
600 = MFA
700 = ETFE
800 = ECTFE

ALTAPEEK Series:

900 = PEEK

OD in 4 Digits:

0125 = .125" = 1/8"
0156 = .156" = 5/32"
0188 = .188" = 3/16"
0250 = .25" = 1/4"
0375 = .375" = 3/8"
0500 = .5" = 1/2"
0750 = .75" = 3/4"
0875 = .875" = 7/8"
1000 = 1.0" = 1"

Wall Thickness in 3 Digits:

030 = .030"
040 = .040"
047 = .047"
062 = .062"

Color:

0C = Natural
00 = Black
01 = Brown
02 = Red
03 = Orange
04 = Yellow
05 = Green
06 = Blue
07 = Violet
08 = Gray
09 = White

200-0375-062-0C =

FEP 1/4" ID x 3/8" OD x .062 Wall Natural color

We thank you for the opportunity to be of service.....please feel free to contact us with any questions, concerns or to discuss upcoming projects!



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TEFLON®

What is “Teflon”?

Teflon is the name trademarked for a family of fluoropolymer products produced by E.I. DuPont Co.

How was Teflon® developed?

In 1938, Dr. Roy Plunkett was working on a project to develop a new form of refrigerants. While working to develop the refrigerants, a by-product was formed possessing a unique combination of characteristics. This amazing slippery material proved inert to most chemicals. The product was given the name polytetrafluoroethylene – more commonly referred to as: PTFE.

Initially, PTFE resins and dispersions were used in the formation of products for the military during WWII. In 1944 the name TEFLON was trade-marked for this unique material. In the mid 1950's, Dupont released PTFE resins for the commercial market.

Although this material had amazing properties, there were some limitations. In response to these limitations, DuPont developed a new form of TEFLON called fluorinated-ethylene-propylene – more commonly referred to as: FEP. The visual clarity of the FEP material was superior to that of PTFE. The methods of producing products from FEP differed from that of PTFE making it preferable for specific products such as tubing extrusion & injection molding. However, this product too had limitations. To combat these limitations later products were developed under the TEFLON banner: PFA and HP PFA.

When Customers ask for “Teflon®,” what are they really requesting?

When customers request a product listed simply as “Teflon”, they may not be aware that there is a full family of products available under that heading. They may also not be aware that there are other producers of PTFE, FEP, PFA and HP PFA resins. While these resins cannot “technically” be called TEFLON, they may possess the same, similar or superior properties – they are just produced by companies other than the E.I. DuPont Co.

Do I need Teflon®?

The simple answer is no. In order to determine the correct product for your application, it is important to review the key properties of each material against your application.

It is equally important to identify the grade of material offered by your supplier. Each grade may have different performance values. Altaflo uses only the highest grades in each category to provide the best end-use performance values for your applications.

For more information on the materials listed above, please consult our catalog. If additional information or samples of a material are required, please contact our customer service department.



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ALTAFLUOR 100®

PTFE (polytetrafluoroethylene) is the original Teflon® material first developed by the E.I. DuPont Co. PTFE is the most flexible of all fluoropolymers offered. ALTAFLUOR 100 PTFE has the broadest temperature range of any fluoropolymer and can resist highly corrosive liquids and gases even at elevated temperatures. The smooth surface finish and lowest coefficient of friction & lubricity make it ideal for bushing or bearing applications. Lengths may be limited due to batch size – please call to confirm available lengths at time of order. ALTAFLUOR 100 is compatible with most standard fittings (not suitable for use with flare-type fittings).

ALTAFLUOR 100® Features:

- 100% virgin grade PTFE resins
- Most flexible fluoropolymer
- Chemically inert and resistant to nearly all industrial chemicals and solvents
- Low permeability
- Smooth non-stick surface finish
- Lowest coefficient of friction
- Excellent electrical properties
- Non-Flammable
- Non-Toxic
- FDA Compliant
- Suitable for use with conventional fittings

Applications

- Laboratory
- Chemical Process
- Analytical and process equipment
- Cryogenic applications
- Electrical applications
- High Temperature applications
- Automotive

Specifications

General: Meets or exceeds the requirements listed in ASTM D 3295-03 (except for dimensional on specific items – please contact factory for details)

Temperature: -410° F to 500° F continuous / 550° F short-term

Flammability: UL 94 V0 rated. PTFE resists combustion and does not promote flame spread

FDA: PTFE is approved for use in food contact applications in compliance with FDA regulation: 21 CFR 177.1550

ALTAFLUOR 100® – PTFE Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
100-0125-030-XX	1/16	1/8	.005	0.030	.005
100-0188-030-XX	1/8	3/16	.005	0.030	.005
100-0250-030-XX	3/16	1/4	.005	0.030	.005
100-0313-030-XX	1/4	5/16	.005	0.030	.005
100-0375-030-XX	5/16	3/8	.005	0.030	.005
100-0500-030-XX	7/16	1/2	.005	0.030	.005
100-0250-040-XX	.170	1/4	.005	0.040	.005
100-0250-047-XX	.156	1/4	.005	0.047	.005
100-0250-062-XX	1/8	1/4	.005	0.062	.005
100-0313-062-XX	3/16	5/16	.005	0.062	.005
100-0375-062-XX	1/4	3/8	.005	0.062	.005
100-0500-062-XX	3/8	1/2	.005	0.062	.005
METRIC SIZES					
100-0236-040-XX	4mm	6mm	.005	1mm	.005
	.157	.236	.005	0.040	.005
100-0315-040-XX	6mm	8mm	.005	1mm	.005
	.236	.315	.005	0.040	.005
100-0394-040-XX	8mm	10mm	.005	1mm	.005
	.315	.394	.005	0.040	.005
100-0472-040-XX	10mm	12mm	.005	1mm	.005
	.394	.472	.005	0.040	.005

Stocked in natural color – please consult factory for details on available colors.



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Due to the nature of applications involving the use of fluoropolymers, we suggest that all customers test product within the conditions specific to their application prior to use.

ALTAFLUOR 100® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
100-0125-030-	0.125	0.030	0.062	1/2"	300
100-0188-030-	0.188	0.030	0.125	3/4"	200
100-0250-030-	0.250	0.030	0.188	1"	150
100-0250-040-	0.250	0.040	0.170	1"	200
100-0250-047-	0.250	0.047	0.157	3/4"	235
100-0250-062-	0.250	0.062	0.125	1/2"	310
100-0313-030-	0.313	0.030	0.250	1-3/4"	120
100-0313-062-	0.313	0.030	0.250	1-3/4"	247
100-0375-030-	0.375	0.062	0.188	3/4"	100
100-0375-062-	0.375	0.062	0.250	3/4"	207
100-0500-030-	0.500	0.030	0.438	6"	75
100-0500-062-	0.500	0.062	0.375	2-1/2"	155
METRIC SIZES					
100-0236-040-	0.236	0.040	0.157	1"	208
	6mm	1mm	4mm		
100-0315-040-	0.315	0.040	0.236	1-1/2"	156
	8mm	1mm	6mm		
100-0394-040-	0.394	0.040	0.315	2"	125
	10mm	1mm	8mm		
100-0472-040-	0.472	0.040	0.394	4"	104

ALTAFLUOR 100® – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp. Long Term			500° F
Upper Service Temp. Short Term			550° F
Specific Gravity	D 792		2.15
Tensile Strength	D 1708	PSI	2500-3000
Elongation	D 638	%	200-400
Flex Modulus	D 790	PSI	27,000
MIT Flex Life	D 2176		1,000,000+
Hardness	D 2240	Shore D	60

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.



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ALTAFLUOR 200®

FEP (fluorinated ethylene propylene) is an economical choice for applications requiring chemical resistance in combination with broad temperature exposure. ALTAFLUOR 200 FEP offers excellent clarity which makes it ideal for sight glass/flow monitoring applications. Additionally, the outstanding UV transmission rate of FEP makes it a clear choice for UV water purification systems. ALTAFLUOR 200 tubing may be used with flare or conventional fittings.

ALTAFLUOR 200® Features:

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to most industrial chemicals and solvents
- High thermal stability
- Excellent UV transmission
- Low permeability
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Superior electrical insulation properties
- Available in coiled hose, convoluted and heat-shrink constructions

Applications

- Chemical process
- Laboratory applications
- Medical devices
- UV water purification systems
- Ground water monitoring
- Food processing
- Electrical insulation
- Automotive

Specifications

General: Meets or exceeds the requirements listed in ASTM D 3296-03

Temperature: -100°F to 400°F

Flammability: UL 94 VO rated. FEP resists combustion and does not promote flame spread

FDA: ALTAFLUOR 200 FEP is approved for use in food contact applications in compliance with FDA regulation: 21 CFR 177.1550.

USP CLASS VI: ALTAFLUOR 200 FEP meets the requirements of USP Class VI

ALTAFLUOR 200® – FEP Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
200-0062-015-XX	1/32	1/16	.003	0.015	.003
200-0125-030-XX	1/16	1/8	.004	0.030	.003
200-0156-030-XX	3/32	5/32	.004	0.030	.003
200-0188-030-XX	1/8	3/16	.004	0.030	.003
200-0250-030-XX	3/16	1/4	.004	0.030	.003
200-0313-030-XX	1/4	5/16	.004	0.030	.003
200-0375-030-XX	5/16	3/8	.005	0.030	.003
200-0438-030-XX	3/8	7/16	.005	0.030	.003
200-0500-030-XX	7/16	1/2	.005	0.030	.003
200-0562-030-XX*	1/2	9/16	.005	0.030	.003
200-0625-030-XX*	9/16	5/8	.005	0.030	.003
200-0688-030-XX*	5/8	11/16	.005	0.030	.003
200-0750-030-XX*	11/16	3/4	.005	0.030	.003
200-0250-040-XX	.170	1/4	.004	0.040	.003
200-0250-047-XX	.156	1/4	.004	0.047	.003
200-0188-062-XX	1/16	3/16	.005	0.062	.003
200-0250-062-XX	1/8	1/4	.005	0.062	.003
200-0375-062-XX	1/4	3/8	.005	0.062	.003
200-0438-062-XX	5/16	7/16	.005	0.062	.003
200-0500-062-XX	3/8	1/2	.005	0.062	.003
200-0625-062-XX	1/2	5/8	.005	0.062	.003
200-0750-062-XX	5/8	3/4	.005	0.062	.003
200-0875-062-XX*	3/4	7/8	.005	0.062	.003
200-1000-062-XX	7/8	1	.005	0.062	.003
200-1125-062-XX	1	1-1/8	.006	0.062	.003
200-1250-062-XX**	1-1/8	1-1/4	.006	0.062	.003

* Custom item – please consult factory for lead time and minimum order requirements.

** Available in straight lengths only.

Additional sizes available – please consult factory for details.

Stocked in natural color – please consult factory for details on available colors.



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ALTAFLUOR 200®

ALTAFLUOR 200® – FEP Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
METRIC SIZES					
200-0157-040-XX	2mm	4mm	.005	1mm	.003
	.078	.157	.005	0.040	.003
200-0197-040-XX	3mm	5mm	.005	1mm	.003
	.118	.197	.005	0.040	.003
200-0236-040-XX	4mm	6mm	.005	1mm	.003
	.157	.236	.005	0.040	.003
200-0276-040-XX	5mm	7mm	.005	1mm	.003
	.197	.276	.005	0.040	.003
200-0315-040-XX	6mm	8mm	.005	1mm	.003
	.236	.315	.005	0.040	.003
200-0354-040-XX	7mm	9mm	.005	1mm	.003
	.276	.354	.005	0.040	.003
200-0394-040-XX	8mm	10mm	.005	1mm	.003
	.315	.394	.005	0.040	.003
200-0433-040-XX	9mm	11mm	.005	1mm	.003
	.354	.433	.005	0.040	.003
200-0472-040-XX	10mm	12mm	.005	1mm	.003
	.394	.472	.005	0.040	.003
200-0551-040-XX	12mm	14mm	.005	1mm	.003
	.472	.551	.005	0.040	.003
200-0630-040-XX	14mm	16mm	.005	1mm	.003
	.551	.630	.005	0.040	.003
200-0354-059-XX	6mm	9mm	.005	1.5mm	.003
	.236	.354	.005	0.059	.003
200-0472-059-XX	9mm	12mm	.005	1.5mm	.003
	.354	.472	.005	0.059	.003

Additional sizes available – please consult factory for details.
 Stocked in natural color – please consult factory for details on available colors.



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ALTAFLUOR 200® Series FEP – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp.			400° F
Specific Gravity	D 792		2.15
Tensile Strength	D1708	PSI	4000
Elongation	D638	%	400
Flex Modulus	D 790	PSI	90,000
MIT Flex Life	D2176		200,000
Hardness	D2240	Shore D	57-60

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.

NOTE: The values represented above are based on the use of 100% virgin grade high performance - low melt flow FEP resin as used in the production of ALTAFLUOR 200 Series Tubing. When comparing data it is critical that performance values are listed for the grade of resin used.

ALTAFLUOR 200® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
200-0125-030-	0.125	0.030	0.062	1/2"	445
200-0156-030-	0.156	0.030	0.094	1/2"	357
200-0188-030-	0.188	0.030	0.125	3/4"	296
200-0188-062-	0.188	0.062	0.062	1/2"	612
200-0250-030-	0.250	0.030	0.188	1"	223
200-0250-040-	0.250	0.040	0.170	1"	297
200-0250-047-	0.250	0.047	0.157	3/4"	349
200-0250-062-	0.250	0.062	0.125	1/2"	460
200-0313-030-	0.313	0.030	0.250	1-3/4"	178
200-0313-062-	0.313	0.062	0.188	1"	368
200-0375-030-	0.375	0.030	0.313	2-1/2"	148
200-0375-062-	0.375	0.062	0.250	1"	307
200-0438-030-	0.438	0.030	0.375	3-1/2"	127
200-0438-062-	0.438	0.062	0.313	2"	263
200-0500-030-	0.500	0.030	0.438	6"	111
200-0500-062-	0.500	0.062	0.375	2"	230
200-0625-030-	0.625	0.030	0.562	6-1/2"	89
200-0625-062-	0.625	0.062	0.500	3"	184
200-0750-030-	0.750	0.030	0.688	8"	74
200-0750-062-	0.750	0.062	0.625	6"	153
200-0875-062-	0.875	0.062	0.750	12"	132
200-1000-062-	1.000	0.062	0.875	22"	115
200-1125-062-	1.125	0.062	1.000	n/a	75
200-1250-062-	1.250	0.062	1.125	n/a	70
METRIC SIZES					
200-0157-040-	0.157	0.040	0.078	1-1/2"	464
	4mm	1mm	2mm		
200-0236-040-	0.236	0.040	0.157	1-3/4"	309
	6mm	1mm	4mm		
200-0315-040-	0.315	0.040	0.236	2-1/2"	232
	8mm	1mm	6mm		
200-0394-040-	0.394	0.040	0.315	2-3/4"	186
	10mm	1mm	8mm		
200-0472-040-	0.472	0.040	0.394	4"	155
	12mm	1mm	10mm		



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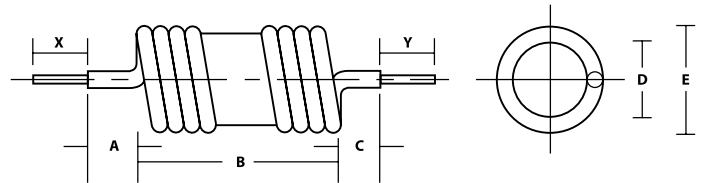
ALTAFLUOR 200®

ALTAFLUOR 200® – Schedule 40 Pipe

PART NUMBER	NOMINAL SIZE	ACTUAL SIZE	WALL	STOCK LENGTH
200-0540-098-XX*	1/4"	.540" ± .010	.098" ± .010	5ft / 10ft
200-0840-119-XX*	1/2"	.840" ± .010	.119" ± .010	5ft / 10ft
200-1050-123-XX*	3/4"	1.050" ± .010	.123" ± .010	5ft / 10ft
200-1315-143-XX*	1"	1.315" ± .010	.143" ± .010	5ft / 10ft

*Custom item – please consult factory for lead time and minimum order requirements.
Additional sizes and Schedule 80 Pipe available upon request.

ALTAFLUOR 200® – Coiled Hose



Custom item – see Coiled Hose Order Form for ordering information.
Please consult factory for additional details.



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ALTAFLUOR 200®

ALTAFLUOR 200® – FEP Standard Convoluted Construction

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
20C-0375-020-XX*	3/8	0.251	0.275	0.375	0.020	6
20C-0500-023-XX*	1/2	0.364	0.375	0.500	0.023	6
20C-0625-025-XX*	5/8	0.485	0.500	0.625	0.025	5.5
20C-0750-025-XX*	3/4	0.608	0.625	0.750	0.025	5
20C-0875-025-XX*	7/8	0.730	0.750	0.875	0.025	4
20C-1000-025-XX*	1	0.860	0.875	1.000	0.025	3.5

*Custom item – please consult factory for lead time and minimum order requirements.
Please see Altafluor 200 Ultra-Flex for stock items.

ALTAFLUOR 200® – FEP Ultra Flex Convoluted Construction

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
20U-0375-020-XX	3/8	0.251	0.275	0.375	0.020	9
20U-0500-023-XX	1/2	0.364	0.375	0.500	0.023	9
20U-0625-025-XX	5/8	0.485	0.500	0.625	0.025	9
20U-0750-025-XX	3/4	0.608	0.625	0.750	0.025	8
20U-0875-025-XX	7/8	0.730	0.750	0.875	0.025	8
20U-1000-025-XX	1	0.860	0.875	1.000	0.025	8

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ALTAFLUOR 200-E®

ALTAFLUOR 200-E ENVIRO SERIES FEP (fluorinated ethylene propylene), is designed specifically for use in environmental sampling applications. This cost effective choice is the preferred product for applications requiring the purity of FEP without exposure to aggressive chemical or other harsh conditions. ALTAFLUOR 200-E Series FEP does not impart taste, odor or other contaminants. For more critical application requirements, we suggest the use of ALTAFLUOR 200 FEP OR ALTAFLUOR 400 PFA Tubing.

ALTAFLUOR 200-E® Features:

- 100% virgin FEP resin
- Excellent UV transmission
- Low permeability
- High thermal stability
- Excellent clarity
- Moisture absorption nearly zero
- Does not impart taste, odor or contaminants
- Non-flammable

Applications

- Ground water monitoring
- Air sampling
- Laboratory applications
- Water process
- UV water purification systems

Specifications

General: Meets the requirements listed in ASTM D2116

Temperature: -100°F to 400°F

Flammability: UL 94 VO rated. FEP resists combustion and does not promote flame spread

ALTAFLUOR 200-E® – FEP-Enviro Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
2EO-0250-030-0C	3/16	1/4	.005	.030	.003
2EO-0313-030-0C	1/4	5/16	.005	.030	.003
2EO-0375-030-0C	5/16	3/8	.005	.030	.003
2EO-0500-030-0C	7/16	1/2	.005	.030	.003
2EO-0250-040-0C	.170	1/4	.005	.040	.003
2EO-0375-062-0C	1/4	3/8	.005	.062	.003
2EO-0500-062-0C	3/8	1/2	.005	.062	.003

Additional sizes are available – minimum order requirements may apply
This tubing is not recommended for aggressive chemical applications – please refer to ALTAFLUOR 200 or ALTAFLUOR 400.

ALTAFLUOR 200-E® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
2EO-0250-030-0C	0.188	0.250	.030	1"	195
2EO-0313-030-0C	0.250	0.313	.030	1-3/4"	156
2EO-0375-030-0C	0.313	0.375	.030	2-1/2"	130
2EO-0500-030-0C	0.438	0.500	.030	6"	97
2EO-0250-040-0C	0.170	0.250	.040	1"	260
2EO-0375-062-0C	0.250	0.375	.062	1"	269
2EO-0500-062-0C	0.375	0.500	.062	2"	200

ALTAFLUOR 200-E® FEP-ENVIRO – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp. Long Term			400° F
Specific Gravity	D 792		2.12-2.17
Tensile Strength	D 1708	PSI	3500
Elongation	D 638	%	300-400
Flex Modulus	D 790	PSI	90,000
MIT Flex Life	D 2176		5000
Hardness	D 2240	Shore D	57-60

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.



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ALTAFLUOR 350®

THV FLEX (tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride) has a unique combination of properties making it the preferred choice for many applications. THV is ideal for use in applications requiring excellent UV light transmission combined with the safety and flexibility of plastic. THV FLEX grade has the flexibility of traditional PVC flex tubing combined with chemical resistance much closer to that of FEP. THV is available in a variety of compositions each designed for specific performance values. ALTAFLUOR 300 Series uses THV FLEX grade which allows for greatest flexibility, permeation resistance and good chemical resistance, but with slightly reduced upper service temperature over other grades. ALTAFLUOR 350 also has excellent bondability with other materials which allows for multi-layer extrusions. For more product specific information please contact your ALTAFLU representative.

ALTAFLUOR 350® Features:

- 100% virgin grade THV FLEX grade
- Highest UV & visible light transmission of any fluoropolymer
- Most flexible fluoropolymer
- Good chemical resistance
- Superior weatherability
- Excellent bondability
- Excellent ozone resistance
- Extremely low permeation

Applications

- Automotive fuel transport systems*
- Laboratory
- Solar energy
- UV purification systems
- Fiber optic
- Chemical process

* Component in multi-layer product

Specifications

Temperature: -40 °F to 212 °F

Flammability: UL 94 VO rated. THV FLEX grade resists combustion and does not promote flame spread

ALTAFLUOR 350® – THV FLEX Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
350-0250-030-XX*	3/16	1/4	.004	0.030	.003
350-0250-040-XX*	.170	1/4	.004	0.040	.003
350-0250-062-XX*	1/8	1/4	.005	0.062	.003
350-0375-062-XX*	1/4	3/8	.005	0.062	.003

*Custom item – please consult factory for lead time and minimum order requirements. Please consult factory for additional sizes & availability.

ALTAFLUOR 350® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
350-0250-030-	0.250	0.030	0.188	1"	223
350-0250-040-	0.250	0.040	0.170	1"	297
350-0250-062-	0.250	0.062	0.125	1/2"	460
350-0375-062-	0.375	0.062	0.250	1"	307

ALTAFLUOR 350® Series THV FLEX – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp. Long Term			180° F
Specific Gravity	D 792		1.95
Tensile Strength	D 638	PSI	2900
Elongation	D		600
Flex Modulus	D 790	PSI	12,000
MIT Flex Life			n/a
Hardness	D 2240	Shore D	44

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.



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ALTAFLUOR 400®

PFA (perfluoroalkoxy) is the product of choice for applications involving extreme chemical resistance combined with high temperature exposure. Although PFA is available in a variety of resin grades, ALTAFLUOR 400 PFA tubing is made exclusively from the highest molecular weight resins available giving it superior physical properties making it suitable for even the most demanding applications. ALTAFLUOR 400 is compatible with flare or conventional type fittings.

ALTAFLUOR 400® Features

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to nearly all industrial chemicals and solvents
- Higher thermal stability than with FEP
- Lower permeability than with FEP
- Translucent
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Suitable for use with flare or conventional fittings
- Available in coiled hose and convoluted constructions
- Low permeation PFA tubing is also available

Applications

- Chemical process
- Heat exchangers
- Laboratory applications
- Semiconductor
- Flow monitoring
- Food processing
- Electrical insulation
- Automotive

Specifications

General: Meets or exceeds the requirements listed in ASTM D 6867-03

Temperature: -300 °F to 500 °F

Flammability: UL 94 VO rated. PFA resists combustion and does not promote flame spread

FDA: ALTAFLUOR 400 PFA is approved for use in food contact applications in compliance with FDA regulation: 21 CFR 177.1550

USP CLASS VI: Altafluor 400 meets the requirements of USP Class VI

ALTAFLUOR 400® – PFA Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
400-0062-015-XX	1/32	1/16	.003	0.015	.003
400-0125-030-XX	1/16	1/8	.004	0.030	.003
400-0156-030-XX	3/32	5/32	.004	0.030	.003
400-0188-030-XX	1/8	3/16	.004	0.030	.003
400-0250-030-XX	3/16	1/4	.004	0.030	.003
400-0313-030-XX	1/4	5/16	.004	0.030	.003
400-0375-030-XX	5/16	3/8	.005	0.030	.003
400-0438-030-XX	3/8	7/16	.005	0.030	.003
400-0500-030-XX	7/16	1/2	.005	0.030	.003
400-0562-030-XX*	1/2	9/16	.005	0.030	.003
400-0625-030-XX*	9/16	5/8	.005	0.030	.003
400-0688-030-XX*	5/8	11/16	.005	0.030	.003
400-0750-030-XX*	11/16	3/4	.005	0.030	.003
400-0250-040-XX	.170	1/4	.004	0.040	.003
400-0250-047-XX	.156	1/4	.004	0.047	.003
400-0188-062-XX	1/16	3/16	.005	0.062	.003
400-0250-062-XX	1/8	1/4	.005	0.062	.003
400-0375-062-XX	1/4	3/8	.005	0.062	.003
400-0438-062-XX	5/16	7/16	.005	0.062	.003
400-0500-062-XX	3/8	1/2	.005	0.062	.003
400-0625-062-XX	1/2	5/8	.005	0.062	.003
400-0750-062-XX	5/8	3/4	.005	0.062	.003
400-0875-062-XX*	3/4	7/8	.005	0.062	.003
400-1000-062-XX	7/8	1	.005	0.062	.003
400-1125-062-XX	1	1-1/8	.006	0.062	.003
400-1250-062-XX**	1-1/8	1-1/4	.006	0.062	.003

* Custom item – please consult factory for lead time and minimum order requirements.

** Available in straight lengths only.

Additional sizes available – please consult factory for details.

Stocked in natural color – please consult factory for details on available colors.

NEW: Low permeation PFA tubing is also available – please consult factory for details.



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ALTAFLUOR 400®

ALTAFLUOR 400® – PFA Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
METRIC SIZES					
400-0157-040-XX	2mm	4mm	.005	1mm	.003
	.078	.157	.005	0.040	.003
400-0197-040-XX	3mm	5mm	.005	1mm	.003
	.118	.197	.005	0.040	.003
400-0236-040-XX	4mm	6mm	.005	1mm	.003
	.157	.236	.005	0.040	.003
400-0276-040-XX	5mm	7mm	.005	1mm	.003
	.197	.276	.005	0.040	.003
400-0315-040-XX	6mm	8mm	.005	1mm	.003
	.236	.315	.005	0.040	.003
400-0354-040-XX	7mm	9mm	.005	1mm	.003
	.276	.354	.005	0.040	.003
400-0394-040-XX	8mm	10mm	.005	1mm	.003
	.315	.394	.005	0.040	.003
400-0433-040-XX	9mm	11mm	.005	1mm	.003
	.354	.433	.005	0.040	.003
400-0472-040-XX	10mm	12mm	.005	1mm	.003
	.394	.472	.005	0.040	.003
400-0551-040-XX	12mm	14mm	.005	1mm	.003
	.472	.551	.005	0.040	.003
400-0630-040-XX	14mm	16mm	.005	1mm	.003
	.551	.630	.005	0.040	.003
400-0354-059-XX	6mm	9mm	.005	1.5mm	.003
	.236	.354	.005	0.059	.003
400-0472-059-XX	9mm	12mm	.005	1.5mm	.003
	.354	.472	.005	0.059	.003

Additional sizes available – please consult factory for details.

Stocked in natural color – please consult factory for details on available colors.

NEW: Low permeation PFA tubing is also available – please consult factory for details.



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ALTAFLUOR 400®

Due to the nature of applications involving the use of fluoropolymers, we suggest that all customers test product within the conditions specific to their application prior to use.

ALTAFLUOR 400® Series PFA – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp.			500° F
Specific Gravity	D 792		2.15
Tensile Strength	D 1708	PSI	4200
Elongation	D 638	%	400
Flex Modulus	D 790	PSI	90,000
MIT Flex Life	D 2176		500,000+
Hardness	D 2240	Shore D	60

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.

NOTE: The values represented above are based on the use of 100% virgin grade high performance - low melt flow PFA resin as used in the production of ALTAFLUOR 400 Series Tubing. When comparing data it is critical that performance values are listed for the grade of resin used.

NEW: Low permeation PFA tubing is also available – please consult factory for details.

ALTAFLUOR 400® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
400-0125-030-	0.125	0.030	0.062	1/2"	449
400-0156-030-	0.156	0.030	0.094	1/2"	360
400-0188-030-	0.188	0.030	0.125	3/4"	299
400-0188-062-	0.188	0.062	0.062	1/2"	617
400-0250-030-	0.250	0.030	0.188	1"	225
400-0250-040-	0.250	0.040	0.170	1"	300
400-0250-047-	0.250	0.047	0.157	3/4"	352
400-0250-062-	0.250	0.062	0.125	1/2"	464
400-0313-030-	0.313	0.030	0.250	1-3/4"	179
400-0313-062-	0.313	0.062	0.188	1"	371
400-0375-030-	0.375	0.030	0.313	2-1/2"	150
400-0375-062-	0.375	0.062	0.250	1"	310
400-0438-030-	0.438	0.030	0.375	3-1/2"	128
400-0438-062-	0.438	0.062	0.313	2"	265
400-0500-030-	0.500	0.030	0.438	4"	112
400-0500-062-	0.500	0.062	0.375	2"	232
400-0625-030-	0.625	0.030	0.562	6-1/2"	90
400-0625-062-	0.625	0.062	0.500	3"	186
400-0750-030-	0.750	0.030	0.688	8"	75
400-0750-062-	0.750	0.062	0.625	6"	155
400-0875-062-	0.875	0.062	0.750	12"	133
400-1000-062-	1.000	0.062	0.875	22"	116
400-1125-062-	1.125	0.062	1.000	n/a	105
400-1250-062-	1.250	0.062	1.125	n/a	84
METRIC SIZES					
400-0157-040-	0.157	0.040	0.078	1-1/2"	468
	4mm	1mm	2mm		
400-0236-040-	0.236	0.040	0.157	1-3/4"	312
	6mm	1mm	4mm		
400-0315-040-	0.315	0.040	0.236	2-1/2"	234
	8mm	1mm	6mm		
400-0394-040-	0.394	0.040	0.315	2-3/4"	187
	10mm	1mm	8mm		
400-0472-040-	0.472	0.040	0.394	4"	156
	12mm	1mm	10mm		



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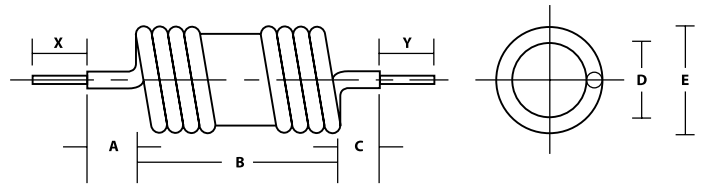
ALTAFLUOR 400®

ALTAFLUOR 400® – Schedule 40 Pipe

PART NUMBER	NOMINAL SIZE	ACTUAL SIZE	WALL	STOCK LENGTH
400-0540-098-0C*	1/4"	.540" ± .010	.098" ± .010	5ft / 10ft
400-0840-119-0C*	1/2"	.840" ± .010	.119" ± .010	5ft / 10ft
400-1050-123-0C*	3/4"	1.050" ± .010	.123" ± .010	5ft / 10ft
400-1315-143-0C*	1"	1.315" ± .010	.143" ± .010	5ft / 10ft

*Custom item – please consult factory for lead time and minimum order requirements.
Please see Altaflour 480 Pipe for stock items.
Additional sizes and Schedule 80 Pipe available upon request.

ALTAFLUOR 400® – Coiled Hose



Custom item – see Coiled Hose Order Form for ordering information.
Please consult factory for additional details.



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ALTAFLUOR 400®

ALTAFLUOR 400® – PFA Standard Convoluted Construction

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
40C-0375-020-XX*	3/8	0.251	0.275	0.375	0.020	6
40C-0500-023-XX*	1/2	0.364	0.375	0.500	0.023	6
40C-0625-025-XX*	5/8	0.485	0.500	0.625	0.025	5.5
40C-0750-025-XX*	3/4	0.608	0.625	0.750	0.025	5
40C-0875-025-XX*	7/8	0.730	0.750	0.875	0.025	4
40C-1000-025-XX*	1	0.860	0.875	1.000	0.025	3.5

*Custom item – please consult factory for lead time and minimum order requirements.

NEW: Low permeation PFA tubing is also available – please consult factory for details.

ALTAFLUOR 400® – PFA Ultra Flex Convoluted Construction

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
40U-0375-020-XX*	3/8	0.251	0.275	0.375	0.020	9
40U-0500-023-XX*	1/2	0.364	0.375	0.500	0.023	9
40U-0625-025XX*	5/8	0.485	0.500	0.625	0.025	9
40U-0750-025-XX*	3/4	0.608	0.625	0.750	0.025	8
40U-0875-025-XX*	7/8	0.730	0.750	0.875	0.025	8
40U-1000-025-XX*	1	0.860	0.875	1.000	0.025	8

*Custom item – please consult factory for lead time and minimum order requirements.

NEW: Low permeation PFA tubing is also available – please consult factory for details.



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ALTAFLUOR 480®

ALTAFLUOR 480 UHP PFA (ultra high purity perfluoroalkoxy) is the product of choice for applications involving extreme chemical resistance combined with high purity requirements. Although HP PFA is available in a variety of resin grades, ALTAFLUOR 480 UHP PFA tubing is made exclusively from a high molecular weight, high purity resin that provides excellent chemical resistance, (even to common fluorosurfactants), highest purity levels, low permeation levels and smoothest surface finish. Unlike standard HP PFA tubing products, ALTAFLUOR 480 tubing has flex life values comparable to PTFE. ALTAFLUOR 480 UHP PFA tubing is ideal for use with flare or conventional fittings.

ALTAFLUOR 480® Features

- 100% virgin grade high performance resins used to resist stress cracking
- Chemically inert to nearly all industrial chemicals and solvents
- Highest thermal stability
- Lowest permeation (even with aggressive chemicals such as HCL)
- Smoothest surface finish resulting in less area of particle entrapment
- Translucent
- Moisture absorption nearly zero
- FDA compliant for food contact
- Non-flammable
- Suitable for use with flare or conventional fittings
- Available in coiled hose and convoluted constructions

Applications

- Semiconductor
- Chemical process
- Heat exchangers
- Laboratory applications
- Flow monitoring
- Pharmaceutical

Specifications

General: Meets or exceeds the requirements listed in ASTM D 6867-03

Temperature: -320 °F to 500 °F

Flammability: UL 94 VO rated. UHP PFA resists combustion and does not promote flame spread

FDA: UHP PFA is approved for use in food contact applications in compliance with FDA regulation: 21 CFR 177.1550.

USP CLASS VI: Altafluor 480 meets the requirements of USP Class VI

ALTAFLUOR 480® – UHP PFA Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
480-0125-030-0C	1/16	1/8	.004	0.030	.003
480-0250-030-0C	3/16	1/4	.004	0.030	.003
480-0250-040-0C	.170	1/4	.004	0.040	.003
480-0250-047-0C	.156	1/4	.004	0.047	.003
480-0250-062-0C	1/8	1/4	.005	0.062	.003
480-0375-062-0C	1/4	3/8	.005	0.062	.003
480-0500-062-0C	3/8	1/2	.005	0.062	.003
480-0750-062-0C	5/8	3/4	.005	0.062	.003
480-1000-062-0C	7/8	1	.005	0.062	.003
480-1250-075-0C	1.10	1.250	.008	.075	.003

Additional sizes available – please consult factory for details.

Available in natural color only. For pigmented items, see ALTAFLUOR 400 series.



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ALTAFLUOR 480®

ALTAFLUOR 480® – UHP PFA Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
METRIC SIZES					
480-0157-040-OC	2mm	4mm	.005	1mm	.003
	.078	.157	.005	0.040	.003
480-0236-040-OC	4mm	6mm	.005	1mm	.003
	.157	.236	.005	0.040	.003
480-0315-040-OC	6mm	8mm	.005	1mm	.003
	.236	.315	.005	0.040	.003
480-0394-040-OC	8mm	10mm	.005	1mm	.003
	.315	.394	.005	0.040	.003
480-0472-040-OC	10mm	12mm	.005	1mm	.003
	.394	.472	.005	0.040	.003

Additional sizes available – please consult factory for details.
Available in natural color only. For pigmented items, see ALTAFLUOR 400 series.



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ALTAFLUOR 480® Series PFA – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp.			500° F
Specific Gravity	D 792		2.15
Tensile Strength	D 1708	PSI	4500
Elongation	D 638	%	400
Flex Modulus	D 790	PSI	90,000
MIT Flex Life	D 2176		1,750,000
Hardness	D 2240	Shore D	60

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.

NOTE: The values represented above are based on the use of 100% virgin grade high performance - low melt flow PFA resin as used in the production of ALTAFLUOR 480 Series Tubing. When comparing data it is critical that performance values are listed for the grade of resin used.

ALTAFLUOR 480® – Bend Radius and Working Pressure Chart

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
480-0125-030-0C	0.125	0.030	0.062	1/2"	451
480-0250-030-0C	0.250	0.030	0.188	1"	226
480-0250-040-0C	0.250	0.040	0.170	1"	301
480-0250-047-0C	0.250	0.047	0.157	3/4"	353
480-0250-062-0C	0.250	0.062	0.125	1/2"	466
480-0375-062-0C	0.375	0.062	0.250	1"	311
480-0500-062-0C	0.500	0.062	0.375	2"	233
480-0750-062-0C	0.750	0.062	0.625	6"	155
480-1000-062-0C	1.000	0.062	0.875	22"	117
480-1250-075-0C	1.250	0.075	1.100	n/a	49
METRIC SIZES					
480-0236-040-0C	0.236	0.040	0.157	1-3/4"	313
	6mm	1mm	4mm		
480-0315-040-0C	0.315	0.040	0.236	2-1/2"	235
	8mm	1mm	6mm		
480-0394-040-0C	0.394	0.040	0.315	2-3/4"	188
	10mm	1mm	8mm		

Additional sizes up to 2" are available.

Available in natural color only. For pigmented items, see ALTAFLUOR 400 series.



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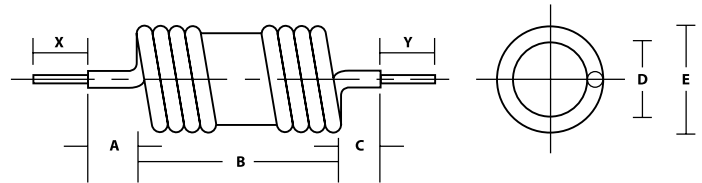
ALTAFLUOR 480®

ALTAFLUOR 480® – Schedule 40 Pipe

PART NUMBER	NOMINAL SIZE	ACTUAL SIZE	WALL	STOCK LENGTH
480-0540-098-0C	1/4"	.540" ± .010	.098" ± .010	5ft / 10ft
480-0840-119-0C	1/2"	.840" ± .010	.119" ± .010	5ft / 10ft
480-1050-123-0C	3/4"	1.050" ± .010	.123" ± .010	5ft / 10ft
480-1315-143-0C	1"	1.315" ± .010	.143" ± .010	5ft / 10ft

Additional sizes and Schedule 80 Pipe available upon request.
Minimum order requirements for non-catalog items will apply.

ALTAFLUOR 480® – Coiled Hose



Custom item – see Coiled Hose Order Form for ordering information.
Please consult factory for additional details.



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ALTAFLUOR 480®

ALTAFLUOR 480® – UHP PFA Standard Convoluted Construction

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
48C-0375-020-0C*	3/8	0.251	0.275	0.375	0.020	6
48C-0500-023-0C*	1/2	0.364	0.375	0.500	0.023	6
48C-0625-025-0C*	5/8	0.485	0.500	0.625	0.025	5.5
48C-0750-025-0C*	3/4	0.608	0.625	0.750	0.025	5
48C-0875-025-0C*	7/8	0.730	0.750	0.875	0.025	4
48C-1000-025-0C*	1	0.860	0.875	1.000	0.025	3.5

*Custom item – please consult factory for lead time and minimum order requirements.
Available in natural color only. For pigmented items, see ALTAFLUOR 400 series.

ALTAFLUOR 480® – UHP PFA Ultra Flex Convoluted Construction

PART NUMBER	NOMINAL OD SIZE	ID MIN	ID MAX	OD MAX	NOMINAL WALL	CONVOLUTIONS PER INCH
48U-0375-020-0C*	3/8	0.251	0.275	0.375	0.020	9
48U-0500-023-0C*	1/2	0.364	0.375	0.500	0.023	9
48U-0625-025-0C*	5/8	0.485	0.500	0.625	0.025	9
48U-0750-025-0C*	3/4	0.608	0.625	0.750	0.025	8
48U-0875-025-0C*	7/8	0.730	0.750	0.875	0.025	8
48U-1000-025-0C*	1	0.860	0.875	1.000	0.025	8

*Custom item – please consult factory for lead time and minimum order requirements.
Available in natural color only. For pigmented items, see ALTAFLUOR 400 series.



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ALTAFLUOR 500®

PVDF (Polyvinylidene Fluoride) is an abrasion resistant fluoropolymer suitable for use in applications requiring chemical resistance with low permeability. Altafluor 500 PVDF is the most abrasion and temperature resistant of the PVDF products offered. Altafluor 500 provides excellent abrasion resistance and mechanical strength in use with many chemicals and solvents. With its extremely low extractable levels, Altafluor 500 is excellent for use in ultra pure water systems. Altafluor 500 is suitable for use with conventional fittings but is not recommended for use with flare fittings.

ALTAFLUOR 500® Features

- 100% virgin grade KYNAR® PVDF
- Excellent abrasion resistance
- Low permeability
- Good chemical resistance
- UV resistant
- FDA Compliant

Applications

- Chemical process
- Semiconductor
- Water process systems
- Aquarium

Specifications

General: Resins meet or exceed requirements listed in ASTM D 3222

Temperature: -20° F to 250° F

Flammability: UL 94-V0 rated KYNAR® PVDF resists combustion and does not promote flame spread

FDA: KYNAR® PVDF is approved for use in food contact applications in compliance with FDA regulation 21 CFR 177.1500

ALTAFLUOR 500® – PVDF Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
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ALTAFLUOR 500 is produced from a KYNAR® homopolymer PVDF resin and is available as a custom order. Minimum order requirements apply. Please consult factory for sizes and availability.

For Flexible PVDF, please see ALTAFLUOR 550 series.

ALTAFLUOR 500® Series PVDF – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp			250° F
Specific Gravity	D 792		1.77-1.79
Tensile Strength	D 1708	PSI	5000-7000
Elongation	D 638	%	50-200
Flex Modulus	D 790	PSI	240,000-300,000
Hardness	D 2240	Shore D	76-80

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.



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ALTAFLUOR 550®

PVDF FLEX (polyvinylidene fluoride - commonly known by the trade name KYNAR FLEX®) is a more flexible version of PVDF suitable for use with flare fittings.* ALTAFLUOR 550 Tubing is resistant to many commonly used industrial fluids and gasses, including ozone, and does not support the growth of fungi. For this reason ALTAFLUOR 550 tubing is preferred for water disinfecting processes involving ozone such as aquarium, spa, pool and agriculture. Additionally, it is ideal for applications with exposure to less aggressive chemicals and lower temperature exposure (over FEP or PFA) or those requiring low extractable levels. ALTAFLUOR 550 is available in many standard sizes available to ship from stock. Custom sizes are available upon request.

* Suggest use of heat flare system with ALTAFLUOR 550 TUBING

ALTAFLUOR 550® Features

- 100% virgin grade KYNAR FLEX® PVDF
- Chemically resistant to many industrial chemicals and solvents including acids, chlorinated chemicals, brominated chemicals, alcohols, and hydrocarbons.
- Low smoke and flame properties
- Resistant to bacteria and fungal growth
- Good abrasion resistance
- Low permeability
- Excellent creep resistance
- Excellent thermal stability
- Better flexibility (over ALTAFLUOR 500)
- UV resistant
- Nuclear radiation resistant
- FDA compliant

Applications

- Metal preparation
- Food & beverage
- Petrochemical processing
- High purity semiconductor
- Water purification
- Chemical process
- Nuclear waste
- Ultra-pure water process systems
- Pulp & paper
- Aquarium
- Pool & spa

Specifications

General: Resin meets or exceeds requirements listed in ASTM D 3222

Temperature: -20° F to 212° F

Flammability: UL 94-V0 rated KYNAR FLEX® PVDF resists combustion and does not promote flame spread

FDA: KYNAR FLEX® PVDF is approved for use in food contact applications in compliance with FDA regulation 21 CFR 177.2600

NSF-51: Meets Food Equipment Materials requirements

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ALTAFLUOR 550® – PVDF FLEX Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
550-0125-030-XX	1/16	1/8	.004	0.030	.003
550-0188-030-XX	1/8	3/16	.004	0.030	.003
550-0250-030-XX	3/16	1/4	.004	0.030	.003
550-0313-030-XX	1/4	5/16	.005	0.030	.003
550-0375-030-XX	5/16	3/8	.005	0.030	.003
550-0250-040-XX	.170	1/4	.005	0.040	.003
550-0250-047-XX	5/32	1/4	.005	0.047	.003
550-0250-062-XX	1/8	1/4	.005	0.062	.003
550-0375-062-XX	1/4	3/8	.005	0.062	.003
550-0500-062-XX	3/8	1/2	.005	0.062	.003
550-0625-062-XX	1/2	5/8	.006	0.062	.003
550-0750-062-XX	5/8	3/4	.006	0.062	.003
550-1000-062-XX	7/8	1	.006	0.062	.003
METRIC SIZES					
550-0157-040-XX	2mm	4mm	.005	1mm	.003
	.079	.157	.005	0.040	.003
550-0236-040-XX	4mm	6mm	.005	1mm	.003
	.157	.236	.005	0.040	.003
550-0315-040-XX	6mm	8mm	.005	1mm	.003
	.236	.315	.005	0.040	.003
550-0394-040-XX	8mm	10mm	.005	1mm	.003
	.315	.394	.005	0.040	.003
550-0472-040-XX	10mm	12mm	.005	1mm	.003
	.394	.472	.005	0.040	.003

Additional sizes available – please consult factory for details.

Stocked in natural color – please consult factory for details on available colors.



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ALTAFLUOR 550®

Due to the nature of applications involving the use of fluoropolymers, we suggest that all customers test product within the conditions specific to their application prior to use.

ALTAFLUOR 550® – PVDF FLEX Tubing

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 72°F
550-0125-030-0C	0.125	0.030	0.062	1/2"	451
550-0188-030-0C	0.188	0.030	0.125	3/4"	168
550-0250-030-0C	0.250	0.030	0.188	1"	126
550-0313-030-0C	0.313	0.030	0.250	1-3/4"	101
550-0375-030-0C	0.375	0.030	0.313	2-1/2"	84
550-0250-040-0C	.250	0.040	.170	1"	155
550-0250-047-0C	.250	0.047	0.156	3/4"	177
550-0250-062-0C	0.250	0.062	0.125	1/2"	260
550-0375-062-0C	0.375	0.062	0.250	1"	174
550-0500-062-0C	0.500	0.062	0.375	2"	130
550-0625-062-0C	0.625	0.062	0.500	3"	104
550-0750-062-0C	0.750	0.062	0.625	5"	87
550-1000-062-0C	1.000	0.062	0.875	22"	65

Additional sizes available – please consult factory for details.
Stocked in natural color – please consult factory for details on available colors.

ALTAFLUOR 550® Series PVDF – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp			212° F
Specific Gravity	D 792		1.78
Tensile Strength	D 1708	PSI	3500
Elongation	D 638	%	200-500
Flex Modulus	D 790	PSI	40,000-60,000
Hardness	D 2240	Shore D	57-62

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.



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ALTAFLUOR 600®

MFA (perfluoro methyl alkoxy) is a co-polymer of tetrafluoroethylene and perfluoromethyl vinyl ether. MFA is similar in characteristics and performance to PFA.

Like PFA resins, ALTAFLUOR 600 resins provide excellent stress crack and chemical resistance. It has purity levels equal or better than most standard PFA resins. Additionally, the ultra-smooth surface finish of ALTAFLUOR 600 tubing products make them ideal for applications requiring quick and easy clean out. MFA has superior clarity than PFA in UV and visible spectrums. For chemical applications not exceeding 480 °F, ALTAFLUOR 600 tubing may prove to be a cost effective option. ALTAFLUOR 600 tubing may be used with flare or conventional fittings.

ALTAFLUOR 600® Features

- 100% virgin grade high performance resin
- Chemically inert to nearly all industrial chemicals and solvents
- Better clarity than PFA in UV and visible spectrums
- Higher service temperature than FEP
- Lower permeability than FEP
- Better impact resistance than PFA
- Smoother surface finish than PFA
- Lower extractable levels than standard FEP and PFA
- Moisture absorption nearly zero
- Non-flammable
- Excellent electrical insulation
- Available coiled

Applications

- Chemical process
- Paint spray
- Electrical insulation
- Heat exchangers
- Semiconductor
- Automotive

Specifications

General: Meets or exceeds the requirements of ASTM 6314

Temperature: -100 °F to 482 °F

Flammability: UL 94 VO rated. MFA resists combustion and does not promote flame spread

ALTAFLUOR 600® – MFA Tubing

PART NUMBER	ID	OD	+/-	WALL	+/-
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Please consult factory for sizes and availability.

ALTAFLUOR 600® Series MFA – Physical Properties

PHYSICAL PROPERTY	ASTM TEST METHOD	UNITS	VALUES
Upper Service Temp			450° F
Specific Gravity	D 792		2.15
Tensile Strength	D 1708	PSI	4500
Elongation	D 638	%	330
Flex Modulus	D 790	PSI	65,000
MIT Flex Life	D 2176		80,000
Hardness	D 2240	Shore D	59

The above information is based on tests performed at 73° F and can vary in individual applications based on parameters such as temperature, chemical concentration, pressure, etc. Please consult factory for details.



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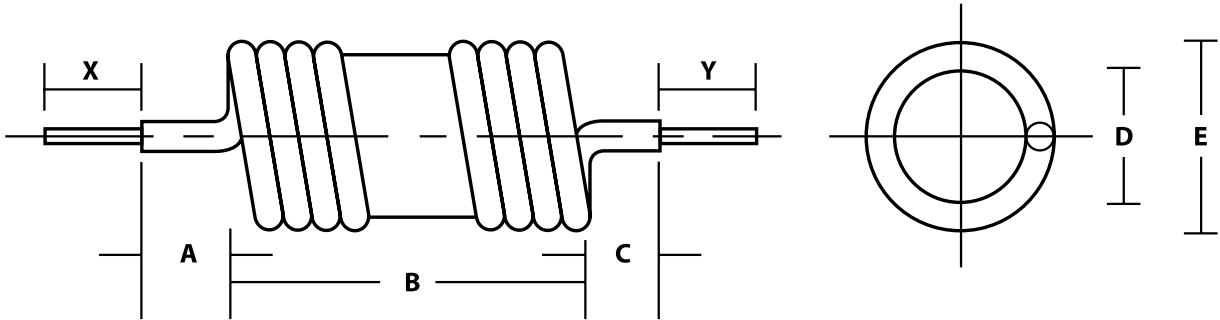
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<p>Coil Tubing</p> <p>OD</p> <p><input type="checkbox"/> 1/4"</p> <p><input type="checkbox"/> 3/8"</p> <p><input type="checkbox"/> 1/2"</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>WALL</p> <p><input type="checkbox"/> .030"</p> <p><input type="checkbox"/> .062"</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>MATERIAL</p> <p><input type="checkbox"/> PTFE</p> <p><input type="checkbox"/> FEP</p> <p><input type="checkbox"/> PFA</p> <p><input type="checkbox"/> HP-PFA</p> <p><input type="checkbox"/> UHP-PFA</p> <p><input type="checkbox"/> MFA</p> <p><input type="checkbox"/> THV</p> <p><input type="checkbox"/> PVDF</p> <p><input type="checkbox"/> PEEK</p> <p>COLOR</p> <p><input type="checkbox"/> NATURAL</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>TOTAL LENGTH</p> <p><input type="checkbox"/> AS REQUIRED</p> <p><input type="checkbox"/> _____ (specify length)</p>	<p>Coil Dimensions</p> <p>A LEFT TAIL _____</p> <p>B COMPRESSED LENGTH _____</p> <p>C RIGHT TAIL _____</p> <p>SPECIFY ONE DIMENSION</p> <p><input type="checkbox"/> D - COIL ID = _____</p> <p><input type="checkbox"/> E - COIL OD = _____</p>	<p>Inner Tubing</p> <p>Complete this section only if an inner tube is required.</p> <p>OD</p> <p><input type="checkbox"/> .125"</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>WALL</p> <p><input type="checkbox"/> .030"</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>MATERIAL</p> <p><input type="checkbox"/> PTFE</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>COLOR</p> <p><input type="checkbox"/> NATURAL</p> <p><input type="checkbox"/> _____ (specify size)</p> <p>TOTAL LENGTH OF TUBE USED</p> <p><input type="checkbox"/> AS REQUIRED</p> <p><input type="checkbox"/> _____ (specify length)</p> <p>X EXTENSION OUT OF LEFT TAIL _____</p> <p>Y EXTENSION OUT OF RIGHT TAIL _____</p>	<p>Coil Configuration</p> <p>If the coil configuration shown above is not suitable for your purposes, please submit a custom design.</p> <p><input type="checkbox"/> USE SHOWN CONFIGURATION</p> <p><input type="checkbox"/> CUSTOM DESIGN SUBMITTED</p> <p>DRAWING NUMBER: _____</p> <p>REVISION: _____</p>
<p>NOTES:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>			

Coiled Hose Order Form

All altaflo products are available in coiled configurations. We will manufacture to your specifications. Please use this worksheet for ordering. You can also contact our sales department to discuss specific details of your application.



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