

### ALTAFLO 480 UHP PFA // Tubing

Part Number	ID	OD	+/-	Wall	+/-
480-0125-030-OC	1/16	1/8	.004	.030	.003
480-0250-030-OC	3/16	1/4	.004	.030	.003
480-0250-040-OC	.170	1/4	.004	.040	.003
480-0250-047-OC	.156	1/4	.004	.047	.003
480-0250-062-OC	1/8	1/4	.005	.062	.003
480-0375-062-OC	1/4	3/8	.005	.062	.003
480-0500-062-OC	3/8	1/2	.005	.062	.003
480-0750-062-OC	5/8	3/4	.005	.062	.003
480-1000-062-OC	7/8	1	.005	.062	.003
480-1250-075-OC	1.100	1.250	.008	.075	.005
480-1500-093-OC	1.314	1.500	.015	.093	.008

#### Metric Sizes

480-0157-040-OC	2mm	4mm	.005	1mm	.003
	.078	.157	.005	.040	.003
480-0236-040-OC	4mm	6mm	.005	1mm	.003
	.157	.236	.005	.040	.003
480-0315-040-OC	6mm	8mm	.005	1mm	.003
	.236	.315	.005	.040	.003
480-0394-040-OC	8mm	10mm	.005	1mm	.003
	.315	.394	.005	.040	.003
480-0472-040-OC	10mm	12mm	.005	1mm	.003
	.394	.472	.005	.040	.003

\*Straight length or reels

\*\*Straight lengths only

† Custom item — please consult factory for lead time and minimum order requirements. Additional sizes up to 4" OD are available as custom extrusions - minimum order requirements may apply. Please contact Altaflo for details.

### ALTAFLO 480 UHP PFA Tubing

**ALTAFLO 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, ALTAFLO 480 UHP PFA tubing is made exclusively from a high molecular weight, high purity resin that provides excellent chemical resistance, low permeation levels, high burst pressures, and the smoothest surface finish. Unlike standard HP PFA tubing products, ALTAFLO 480 Series UHP PFA has superior flex life values comparable to those of PTFE.

ALTAFLO 480 UHP PFA tubing is ideal for use with flare or conventional fittings.

#### Features

- Exclusive use of Daikin AP-231SH UHP PFA Semi-F57 approved resin
- 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)
- Translucent
- Smoothest surface finish resulting in less area of particle entrapment
- 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
- Superior resistance to common fluorosurfactants vs. other PFA and HP PFA
- Greatest flex life values compared with other PFA and HP PFA materials

#### 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 V0 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:** ALTAFLO meets the requirements of USP Class VI
- **NSF:** ALTAFLO 480 UHP PFA tubing is certified to NSF 61 and NSF 372

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.

### ALTAFLLO 480 UHP PFA // Bend Radius and Working Pressure Chart

Part Number	OD	WALL	ID	Bend Radius	Working Pressure @ 73°F
480-0125-030-OC	0.125	0.030	0.062	1/2"	451
480-0250-030-OC	0.250	0.030	0.188	1"	226
480-0250-040-OC	0.250	0.040	0.170	1"	301
480-0250-047-OC	0.250	0.047	0.157	3/4"	353
480-0250-062-OC	0.250	0.062	0.125	1/2"	466
480-0375-062-OC	0.375	0.062	0.250	1"	311
480-0500-062-OC	0.500	0.062	0.375	2"	233
480-0750-062-OC	0.750	0.062	0.625	6"	155
480-1000-062-OC	1.000	0.062	0.875	22"	117
480-1250-075-OC	1.250	0.075	1.100	25"	75
480-1500-093-OC	1.500	0.093	1.314	25"	105
<b>Metric Sizes</b>					
480-0236-040-OC	0.236	0.040	0.157	1-3/4"	313
	6mm	1mm	4mm		
480-0315-040-OC	0.315	0.040	0.236	2-1/2"	235
	8mm	1mm	6mm		
480-0394-040-OC	0.394	0.040	0.315	2-3/4"	188
	10mm	1mm	8mm		

**Notes:** 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 the factory for details.

For an estimate on burst pressure at ambient temperature, we consider a 3:1 ratio when exposure temperature is 73°F. However, Altaflo does not recommend exceeding the suggested Working Pressure listed.

Additional sizes up to 2" are available.

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

### ALTAFLLO 480 UHP 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 ALTAFLLO 480 Series Tubing. When comparing data it is critical that performance values are listed for the grade of resin used.

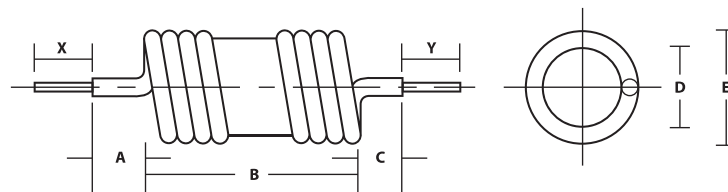
Due to the nature of applications involving the use of fluoropolymers, we suggest that all customers test product within the conditions specific to their application prior to use.

### ALTAFLO 480 UHP PFA // Tubing Schedule 40 Pipe

Part Number	Normal Size	Actual Size	Wall	Stock Length
480-0540-088-0C	1/4"	.540" ± .010	.088" ± .020,-0	10 FT
480-0840-109-0C	1/2"	.840" ± .010	.109" ± .020,-0	10 FT
480-1050-113-0C	3/4"	1.050" ± .010	.113" ± .020,-0	10 FT
480-1315-133-0C	1"	1.315" ± .010	.133" ± .020,-0	10 FT
480-1660-140-0C	1-1/4"	1.660" ± .015	.140" ± .020,-0	10 FT
480-1900-145-0C	1-1/2"	1.900" ± .015	.145" ± .020,-0	10 FT
480-2375-154-0C	2"	2.374" ± .015	.154" ± .020,-0	10 FT

\* Additional sizes and Schedule 80 Pipe available upon request. Minimum order requirements for non-catalog items will apply. 10 ft minimum order requirement — can be cut into shorter lengths for shipment. All 480 UHP PFA in stock. UHP PFA in stock

### ALTAFLO 480 UHP PFA // Coiled Hose



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

### ALTAFLO 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 ALTAFLO 400 series.

### ALTAFLO 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	9
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 the factory for lead time and minimum order requirements.

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

Please contact Pexco for details.



This ALTAFLO 400 UHP PFA has been tested and certified by WQA against NSF/ANSI 61 to Commercial Hot (180° F/82° C), and NSF/ANSI 372 for lead free compliance.

Testing to NSF 51 has been dropped by our certifying agent Water Quality Associates (WQA). We have previously received this certification and have reason to believe if tested these products would meet the requirements. Each has currently achieved NSF 61 and NSF 372 certification. We are in the process of locating a new certifying agent for the NSF 51 certification.

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