

ALTAFLO 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	4 mm	.005	1mm	.003
	0.079	0.157	.005	0.040	.003
550-0236-040-XX	4mm	6 mm	.005	1mm	.003
	0.157	0.236	.005	0.040	.003
550-0315-040-XX	6mm	8 mm	.005	1mm	.003
	0.236	.315	.005	0.040	.003
550-0394-040-XX	8mm	10 mm	.005	1mm	.003
	.315	.394	.005	0.040	.003
550-0472-040-XX	10mm	12 mm	.005	1mm	.003
	.394	0.472	.005	0.040	.003

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



This ALTAFLO 550 PVDF Flex 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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ALTAFLO 550 PVDF Flex

PVDF FLEX (polyvinylidene fluoride — commonly known by the trade name KYNAR FLEX®) is a more flexible version of PVDF. ALTAFLO 550 Tubing is resistant to many commonly used industrial fluids and gases, including ozone, and does not support the growth of fungi. For this reason, ALTAFLO 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. ALTAFLO 550 is available in many standard sizes available to ship from stock. Custom sizes are available upon request.* ALTAFLO 550 tubing is compatible with most standard fittings (not suitable for use with flare fittings).

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 ALTAFLO® 500)
- UV resistant
- Nuclear radiation resistant
- FDA compliant

Applications

- Metal preparation
- Food and beverage
- Petrochemical processing
- High purity semiconductor
- Water purification
- Chemical process
- Ultra-pure water process systems
- Pulp and paper
- Aquarium
- Pool and 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:** Resin used to produce ALTAFLO 550 Series PVDF Tubing is certified to NSF 61 and 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

ALTAFLO 550 PVDF Flex // Bend Radius and Working Pressure Chart

Part Number	OD	Wall	ID	Bend Radius	Working Pressure @ 72°F
550-0125-030-OC	0.125	0.030	0.062	1/2"	416
550-0157-030-OC	0.156	0.030	0.094	3/4"	334
550-0188-030-OC	0.188	0.030	0.125	3/4"	277
550-0250-030-OC	0.250	0.030	0.188	1"	208
550-0313-030-OC	0.313	0.030	0.250	1-3/4"	166
550-0375-030-OC	0.375	0.030	0.312	2-1/2"	138
550-0438-030-OC	0.438	0.030	0.375	3-1/2"	118
550-0500-030-OC	0.500	0.030	0.437	6"	104
550-0562-030-OC	0.563	0.030	0.500	6-1/2"	93
550-0625-030-OC	0.625	0.030	0.562	6-1/2"	83
550-0688-030-OC	0.688	0.030	0.625	8"	75
550-0750-030-OC	0.750	0.030	0.687	8"	70
550-0188-062-OC	0.188	0.062	0.062	1/2"	572
550-0250-062-OC	0.250	0.062	0.125	1/2"	430
550-0313-062-OC	0.313	0.062	0.188	1"	343
550-0375-062-OC	0.375	0.062	0.250	1"	286
550-0438-062-OC	0.438	0.062	0.313	2"	246
550-0500-062-OC	0.500	0.062	0.375	2"	215
550-0625-062-OC	0.625	0.062	0.500	3"	172
550-0750-062-OC	0.750	0.062	0.625	6"	143
550-0875-062-OC	0.875	0.062	0.750	12"	123
550-1000-062-OC	1.000	0.062	0.875	22"	107
550-0250-040-OC	0.250	0.040	0.170	1"	278
550-0250-047-OC	0.250	0.047	0.156	3/4"	326
Metric Sizes	OD	Wall	ID	Bend Radius	Working Pressure @ 72°F
550-0157-040-OC	4mm	1mm	2mm	1-1/2"	434
550-0236-040-OC	6mm	1mm	4mm	2-1/2"	289
550-0315-040-OC	8mm	1mm	6mm	2-3/4"	217
550-0394-040-OC	10mm	1mm	8mm	2-3/4"	174
550-0472-040-OC	12mm	1mm	10mm	4"	145

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. 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 available — please consult factory for details.

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

ALTAFLO 550 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

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