

# 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-VO 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. 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.



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