

# ALTAFLUOR® 100 PTFE

PTFE (polytetrafluoroethylene) was 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, lowest coefficient of friction and 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 (except for dimensional on specific items)

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

**Flammability:** PTFE tubing resists combustion and does not promote flame spread. PTFE resin used for production of ALTAFLUOR® 100 series is UL 94 VO rated

**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	+/-
<b>Industrial Wall</b>					
100-0062-015-XX	1/32	1/16	.003	0.015	.003
100-0094-030-XX	1/32	3/32	.005	0.030	.005
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
<b>Custom Wall</b>					
100-0250-040-XX	0.17	1/4	.005	0.040	.005
100-0375-040-XX	0.295	3/8	.005	0.040	.003
100-0250-047-XX	5/32	1/4	.005	0.047	.005
<b>Heavy Wall</b>					
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
<b>Metric</b>					
100-0157-040-XX	2mm	4mm		1mm	
	0.079	157	.005	0.040	.005
100-0236-040-XX	4mm	6mm		1mm	
	0.157	0.236	.005	0.040	.005
100-0315-040-XX	6mm	8mm		1mm	
	0.236	0.315	.005	0.040	.005
100-0394-040-XX	8mm	10mm		1mm	
	0.315	0.394	.005	0.040	.005
100-0472-040-XX	10mm	12mm		1mm	
	0.394	0.472	.005	0.040	.005
100-0354-059-XX	6mm	9mm		1.5mm	
	0.236	0.354	.005	0.590	.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 PTFE - BEND RADIUS AND WORKING PRESSURE CHART

PART NUMBER	OD	WALL	ID	BEND RADIUS	WORKING PRESSURE @ 73°F
<b>Industrial Wall</b>					
100-0062-015-XX	1/16	0.015	1/32	3/8"	270
100-0094-030-XX	3/32	0.030	1/32	1/2"	350
100-0125-030-XX	0.125	0.030	0.062	1/2"	443
100-0188-030-XX	0.188	0.030	0.125	3/4"	254
100-0250-030-XX	0.250	0.030	0.188	1"	172
100-0313-030-XX	0.313	0.030	0.250	1-3/4"	120
100-0375-030-XX	0.375	0.030	0.313	1-3/4"	100
100-0500-030-XX	0.500	0.030	0.438	6"	71
<b>Custom Wall</b>					
100-0250-040-XX	0.250	0.040	0.170	1"	310
100-0250-047-XX	0.250	0.047	0.156	3/4"	360
<b>Heavy Wall</b>					
100-0250-062-XX	0.250	0.062	0.125	1/2"	398
100-0313-062-XX	0.313	0.062	0.188	3/4"	356
100-0375-062-XX	0.375	0.062	0.250	1"	248
100-0500-062-XX	0.500	0.062	0.375	2-1/2"	150
<b>Metric</b>					
100-0157-040-XX	0.157	0.04	0.079	3/4"	455
	4mm	1mm	2mm		
100-0236-040-XX	0.236	0.040	0.157	1"	208
	6mm	1mm	4mm		
100-0315-040-XX	0.315	0.040	0.236	1-1/2"	156
	8mm	1mm	6mm		
100-0394-040-XX	0.394	0.040	0.315	2"	125
	10mm	1mm	8mm		
100-0472-040-XX	0.472	0.040	0.394	4"	104

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.

## ALTAFLUOR® 100 PTFE - 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



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