

# 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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# ALTAFLUOR® 100 PTFE

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 | 1"          | 356                     |
| 100-0375-062-XX        | 0.375 | 0.062 | 0.250 | 3/4"        | 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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