



A new formulation of TPE (thermoplastic elastomer) tubing has been developed for fluid transfer in the biopharmaceutical industry.

AdvantaFlex addresses the need for a flexible, translucent, sterilizable, heat sealable, and weldable biopharmaceutical tubing for fluid processing. AdvantaFlex maintains its physical properties following gamma irradiation and autoclave sterilization processes, resists kinking, remains translucent for visible product flow, and does not become gummy. Additionally, the unique properties of AdvantaFlex help it outperform similar tubing in peristaltic pumps.



TPE
www.advantapure.com

KEY FEATURES



- Excellent life in peristaltic pumps
- Sterile weldable and heat sealable
- Made from FDA-approved ingredients
- Excellent low absorption and adsorption characteristics as compared to silicone
- Meets various ISO and USP standards, including Class VI
- Meets European Pharmacopoeia 3.2.2.1 standards
- Low permeability as compared to silicone
- Certified free of silicone oils and animal-derived ingredients
- Smooth interior for excellent flow and performance
- Sterilizable by gamma radiation or autoclave
- Translucent for fluid flow visibility
- Excellent tubing component for single-use process filling and sampling applications
- Sizes from 1/8" (.125) through 1" (1.000) I.D.
- Custom sizes, lengths, and packaging available
- Sealed in polybags at manufacture for cleanliness
- Documented quality control; lot traceable with identification on polybags
- Single resin validation — no need to graft to other tubing materials like silicone for media filling and sampling applications that involve peristaltic pumps; helps eliminate operator errors
- Chemical Characterization of Materials per ISO — "Extractables" test portfolio available upon request

There is a ^{better} alternative



SPECIFICATIONS

Product Number	I.D. (in.)	I.D. (mm.)	Wall (in.)	Wall (mm.)	O.D. (in.)	O.D. (mm.)	Working Pressure at 70°F (21.1°C) (PSI)	Working Pressure (Bar)	Standard Available Length (ft.)
APAF-BP-0125-0250	.125	3.18	.063	1.59	.250	6.35	30	2.1	50
APAF-BP-0188-0313	.188	4.76	.063	1.59	.313	7.94	23	1.6	50
APAF-BP-0188-0375	.188	4.76	.094	2.38	.375	9.52	32	2.2	50
APAF-BP-0250-0375	.250	6.35	.063	1.59	.375	9.52	20	1.4	50
APAF-BP-0250-0438	.250	6.35	.094	2.38	.438	11.11	23	1.6	50
APAF-BP-0250-0500	.250	6.35	.125	3.18	.500	12.70	30	2.1	50
APAF-BP-0313-0438	.313	7.94	.063	1.59	.438	11.11	21	1.4	50
APAF-BP-0313-0500	.313	7.94	.094	2.38	.500	12.70	24	1.6	50
APAF-BP-0375-0500	.375	9.52	.063	1.59	.500	12.70	18	1.3	50
APAF-BP-0375-0625	.375	9.52	.125	3.18	.625	15.88	24	1.6	50
APAF-BP-0500-0750	.500	12.70	.125	3.18	.750	19.05	22	1.5	50
APAF-BP-0625-0875	.625	15.88	.125	3.18	.875	22.23	18	1.3	50
APAF-BP-0750-1000	.750	19.05	.125	3.18	1.000	25.40	17	1.2	50
APAF-BP-0750-1125	.750	19.05	.188	4.76	1.125	28.58	18	1.3	50
APAF-BP-1000-1375	1.000	25.40	.188	4.76	1.375	34.93	18	1.3	25

Sold by standard coil length; longer standard lengths, such as 100 feet, are available on most sizes. Contact your AdvantaPure Sales Representative for details. Add length suffix code to product number when ordering—see the **Coil Length Legend** at right for length suffix codes. Example: 50 ft. of .125 in. I.D. x .250 in. O.D. tubing is product number APAF-BP-0125-0250L. Coils are supplied in heat-sealed polybags and bulk packed.

Coil Length Legend:

P = 25 feet
L = 50 feet

TPE

APPLICATIONS

- Sterile filling
- Vaccine production
- Pharmaceutical sampling and delivery systems
- Peristaltic pump transfer
- Single-use systems
- Bioreactor processes
- Cell media, harvesting, and fermentation
- Pharmaceutical production and processing
- High purity water transfer
- Filtration



■ Because of its ability to be sealed and welded, AdvantaFlex biopharmaceutical tubing is ideal for filling and sampling applications.

■ Excellent weldability and sealability allows leak-free, sterile connections for multiple-batch product transfer. AdvantaFlex is compatible with all portable welding and heat-sealing equipment.



■ AdvantaFlex biopharmaceutical tubing offers excellent life in peristaltic pumps.

TPE

Discover how much better the *right* tubing — AdvantaFlex — will work in your pharmaceutical, biotech, medical, or other critical processing application.

PHYSICAL PROPERTIES

Specific Gravity	.89
Hardness, Shore A ± 5	65
Ultimate Tensile Strength, PSI	2167
Ultimate Elongation, %	948
Tensile Modulus @ 100%, PSI	364
Tear Strength, Die B, PPI	350
Compression Set, Method B, 22 hours @ 23°C at 25% deflection, %	9.9
Max. Operating Temperature, °F	275
Brittle Temperature, °F	-88



SINGLE-USE PROCESS SYSTEMS



Single-use process systems eliminate lengthy production stoppages for sterilization between batch runs, thereby simplifying cleaning validation requirements—use once and discard.

By combining platinum-cured, Class VI silicone tubing with molded fittings, stoppers and other components, a wide variety of manifold options are possible. Designs range from simple, single fitting connections to complex configurations with varying lengths of tubing and several molded connections.



Contact your AdvantaPure sales representative or visit www.advantapure.com/filling_assy.htm for information.

GammaTAG®

GAMMA STERILIZABLE RFID TAGS



GammaTag is the first read/write RFID (radio frequency identification) tag that's safely sterilizable by gamma radiation up to 45 kGy. Use GammaTag to reliably identify, track, and store electronic data of single-use bioprocess components from inception to disposal.

GammaTag is available *exclusively* from AdvantaPure. Call AdvantaPure to find out more, or visit www.gammatag.com.

Gamma irradiation services of complete systems, with or without GammaTags, are also available.

GammaTag was developed in partnership with **ProcessHQ**
PURE AND SIMPLE™

TFE

Purity in Fluid Flow Systems®



Made in U.S.A.

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145 James Way
Southampton, PA 18966 U.S.A.

AdvantaPURE®
NEWAGE INDUSTRIES



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for Your Benefit

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