



dvantaFlex TPE (thermoplastic elastomer) tubing addresses the need for a flexible, translucent, sterilizable, moldable, heat sealable, and weldable biopharmaceutical tubing for fluid processing. AdvantaFlex maintains its physical properties following 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.



KEY FEATURES

- Excellent life in peristaltic pumps
- Sterile weldable and heat sealable
- Now available as leak-proof molded connections and tubing
- Made from FDA-approved ingredients
- Excellent low absorption and adsorption characteristics as compared to silicone
- Certified free of silicone oils and animal-derived ingredients
- Sterilizable by autoclave or gamma radiation
- Available with validated sterility assurance of 10⁻⁶ via gamma irradiation per ISO 11137 method VDmax 25
- Meets various ISO and USP standards, including Class VI
- Meets European Pharmacopoeia 3.2.2.1 standards
- Low permeability as compared to silicone
- Smooth interior for excellent flow and performance
- Translucent for fluid flow visibility
- Excellent tubing component for single use systems
- 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 that involves peristaltic pumps; helps eliminate operator errors
- "Extractables" test portfolio available upon request
- AdvantaFlex has a Master File with the U.S. Food and Drug Administration (#28810)



MOLDED

ASSEMBLIES &

CONNECTIONS

Now Available!















SPECIFICATIONS

Product Number	Notes	(in.)	D. (mm.)	Wall (in.)	(Ref.) (mm.)	(in.)	D. (mm.)	Wor Pres at 70°F ((PSI)		Standard Available Length (ft.)
APAF-BP-0125-0250	†‡	.125	3.18	.062	1.57	.250	6.35	30	2.1	50, 100
APAF-BP-0188-0313	‡	.188	4.76	.062	1.57	.313	7.94	23	1.6	50, 100
APAF-BP-0188-0375	†	.188	4.76	.094	2.38	.375	9.52	32	2.2	50, 100
APAF-BP-0250-0375	‡	.250	6.35	.063	1.59	.375	9.52	20	1.4	50, 100
APAF-BP-0250-0438	+#	.250	6.35	.094	2.38	.438	11.11	23	1.6	50, 100
APAF-BP-0250-0500	‡	.250	6.35	.125	3.18	.500	12.70	30	2.1	50, 100
APAF-BP-0313-0438	†‡	.313	7.94	.062	1.57	.438	11.11	21	1.4	50, 100
APAF-BP-0313-0500	‡	.313	7.94	.094	2.38	.500	12.70	24	1.6	50, 100
APAF-BP-0375-0500	‡	.375	9.52	.062	1.57	.500	12.70	18	1.3	50, 100
APAF-BP-0375-0563	‡	.375	9.52	.094	2.39	.563	14.30	23	1.6	50
APAF-BP-0375-0625	+‡	.375	9.52	.125	3.18	.625	15.88	24	1.6	50, 100
APAF-BP-0500-0750	+‡	.500	12.70	.125	3.18	.750	19.05	22	1.5	50, 100
APAF-BP-0625-0875	†‡	.625	15.88	.125	3.18	.875	22.23	18	1.3	50, 100
APAF-BP-0750-1000	+‡	.750	19.05	.125	3.18	1.000	25.40	17	1.2	50, 100
APAF-BP-0750-1125	+‡	.750	19.05	.188	4.76	1.125	28.58	18	1.3	50, 100
APAF-BP-1000-1375	‡	1.000	25.40	.188	4.76	1.375	34.93	18	1.3	25

Sold by standard coil length only. 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. Contact your AdvantaPure Sales Representative for other packaging options. CF = consult factory.

Coil Length Legend:

P = 25 feet

L = 50 feet

K = 100 feet

Notes Legend:

[†]Available in other lengths on spools—call for details. ‡Certain lengths available double bagged—call for details.

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 is ideal for filling and sampling applications.

Phone: 215-526-2151 Toll Free Phone: 888-755-4370

www.advantapure.com





• Build a complete single use system from AdvantaFlex

 Eliminates the need to splice silicone tubing sections into a process line

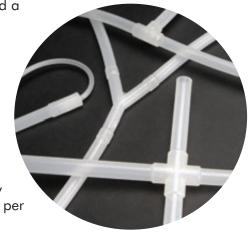
 Helps reduce the number of barbed fittings and cable ties needed and their potential for

contamination, leaks, and a wasted batch of product

 Molded connections provide a smooth inner surface for even, unrestricted flow

 Choose from T's, Y's, crosses, reducers, mini and standard Tri-Clamps®, and BioClosure® container closure systems

 Available with validated sterility assurance of 10-6 log reduction per ISO 11137 method VDmax





■ Container closure inserts such as GL45's can be molded from AdvantaFlex.



■ Excellent weldability and sealability allows leak-free, sterile connections for sampling and storage applications. AdvantaFlex is compatible with all portable welding and heat-sealing equipment.



AdvantaFlex biopharmaceutical tubing offers excellent life in peristaltic pumps.



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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

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



WELDING & SEALING ADVANTAFLEX

 The AdvantaTube® Welder makes sterile tubing welds quickly and reliably. Developed for biopharmaceutical applications, it has been designed to optimally work in all AdvantaFlex tubing applications including wet, dry, or fluid filled tubing. Sealing AdvantaFlex tubing is fast and easy with

the AdvantaTube® Sealer. It offers a compact design, simple operation, and portability — use the 10 foot cable to seal at the location that's convenient for you.

Purity in Fluid Flow Systems®



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