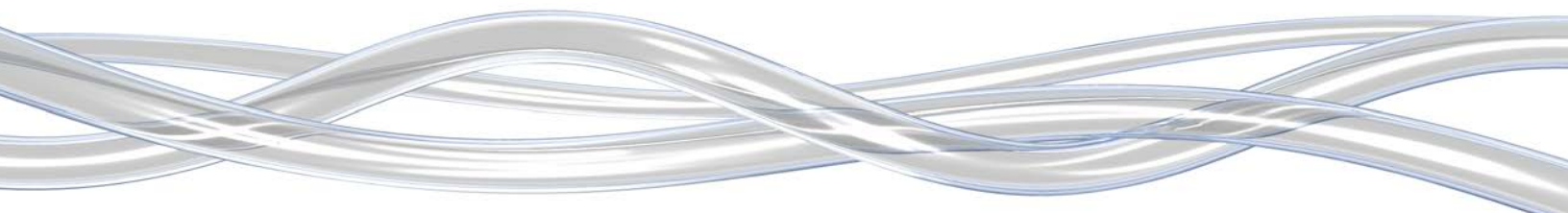




# TPE

## Thermoplastic Elastomer Tubing

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



### Features

- Excellent life in peristaltic pumps
- Smooth interior for excellent flow and performance
- Sterile, weldable, and heat sealable
- Translucent for fluid flow visibility
- Made from FDA-approved ingredients
- Excellent tubing component for single use systems
- Excellent low absorption and adsorption characteristics as compared to silicone
- Furnished double bagged in 50 ft. coils
- Certified free of silicone oils and animal-derived ingredients
- Documented lot traceable with identification on bags
- Sterilizable by autoclave or gamma radiation - available with validated sterility assurance of 10<sup>-6</sup> log reduction per ISO 11137 method VDmax
- Documented quality control
- Meets various ISO and USP standards, including Class VI
- 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
- Meets European Pharmacopoeia 3.2.2.1 standards
- Chemical Characterization of Materials per ISO - "Extractables" test portfolio available upon request
- Low permeability as compared to silicone

For more information and samples, please visit [www.nordsonmedical.com](http://www.nordsonmedical.com)

# Thermoplastic Elastomer Tubing

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Part No.	I.D.			Wall			O.D.			Working Pressure at 70° F (21.1° C)	
	(in.)	(mm.)	(fra.)	(in.)	(mm.)	(fra.)	(in.)	(mm.)	(fra.)	(in.)	(mm.)
<b>AF7500077</b>	.125	3.18	1/8	.063	1.59	1/16	.250	6.35	1/4	30	2.1
<b>AF7500155</b>	.188	4.76	3/16	.063	1.59	1/16	.313	7.94	5/16	23	1.6
<b>AF7500311</b>	.250	6.35	1/4	.094	2.38	3/32	.438	11.11	7/16	23	1.6
<b>AF7500506</b>	.375	9.52	3/8	.125	3.18	1/8	.625	15.88	5/8	24	1.6
<b>AF7500584</b>	.500	12.70	1/2	.125	3.18	1/8	.750	19.05	3/4	22	1.5
<b>AF7500753</b>	.750	19.05	3/4	.125	3.18	1/8	1.000	25.40	1	17	1.2

Sold by standard coil lengths of 50 feet only. Coils are supplied double bagged in heat-sealed polybags and bulk packed.

## 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

## Physical Properties

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

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