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
- Sterile, weldable, and heat sealable
- 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 log reduction per ISO 11137 method VDmax
- 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
- Furnished double bagged in 50 ft. coils
- Documented lot traceable with identification on bags
- Documented quality control
- 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
- Chemical Characterization of Materials per ISO - “Extractables” test portfolio available upon request

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>I.D. (in.)</th>
<th>(mm.)</th>
<th>(fra.)</th>
<th>Wall (in.)</th>
<th>(mm.)</th>
<th>(fra.)</th>
<th>O.D. (in.)</th>
<th>(mm.)</th>
<th>(fra.)</th>
<th>Working Pressure at 70° F (21.1° C) (in.) (mm.)</th>
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<tbody>
<tr>
<td>AF7500077</td>
<td>.125</td>
<td>3.18</td>
<td>1/8</td>
<td>.063</td>
<td>1.59</td>
<td>1/16</td>
<td>.250</td>
<td>6.35</td>
<td>1/4</td>
<td>30 2.1</td>
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<td>.063</td>
<td>1.59</td>
<td>1/16</td>
<td>.313</td>
<td>7.94</td>
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<td>.750</td>
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<tr>
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<td>1.000</td>
<td>25.40</td>
<td>1</td>
<td>17 1.2</td>
</tr>
</tbody>
</table>

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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