

ELDON

JAMES

# Tubing Selection Guide



All tubing is 100% PVC Free and contains no DEHP or other phthalates, and no plasticizers.

## Medical • Biotech • Life Sciences

### Flexelene™ 135C /Braided 135C– Autoclavable • USP Class VI

Biomedical • Pharmaceutical • Bioprocess Tubing

- Peristaltic pump tubing
- Silicone Alternative
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested
- Low gas and oxygen permeability
- Part Number: FLXC, FLXCBR

### Flexelene™ MFX Series – USP Class VI

Biomedical Tubing

- Ultra-low extractables / leachables
- ISO 10993-5 and ISO 10993-4
- Shore A 58 to 92 hardness
- Part Number: MFX73M, MFX82R, MFX92R

### KFLEX – USP Class VI • Kynar® Tubing

Biomedical • Pharmaceutical • Bioprocess Tubing

- Ultra-low extractables / leachables
- ISO 10993-5 and ISO 10993-4
- More flexible than tubing extruded from 100% Kynar
- Excellent chemical resistance
- Part Number: KLEX

### EJ Prene™– Autoclavable • USP Class VI

Biomedical • Pharmaceutical • Bioprocess Tubing

- Peristaltic pump tubing
- Very good chemical resistance
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested
- Low gas and oxygen permeability
- Part Number: EJP70, EJP80

### Flexelene™ 121C – Autoclavable • USP Class VI

Biomedical • Pharmaceutical • Bioprocess Tubing

- Peristaltic pump tubing
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested
- Low gas and oxygen permeability
- Part Number: SFLXC

### Flexelene™ SFX – USP Class VI

Biomedical Tubing

- Ultra clear and flexible
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4
- Part Number: SFX

### Flexelene™ FLEX E Series – USP Class VI

Biomedical • Bioprocess Tubing

- Ultra-low extractables / leachables
- ISO 10993-5 and ISO 10993-4
- Low protein binding
- Shore A 66 to 95 hardness
- Part Number: 66E, 75E, 84E, 95E

## General Purpose • Pneumatics • Robotics • Fluid Handling

### Flexelene™ FX – USP Class VI

General Purpose Tubing

- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested
- Low gas and oxygen permeability
- Suitable for deionized water
- Part Number: FX

### Flexelene™ MFX Series – USP Class VI

Biomedical Tubing

- Ultra-low extractables / leachables
- ISO 10993-5 and ISO 10993-4
- Shore A 58 hardness
- Part Number: MFX

### Flexelene™ CFX – USP Class VI

Tubing for Push-on Fittings

- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4, USP 661, BPOG Tested
- Low gas and oxygen permeability
- Suitable for deionized water
- Part Number: CFX

### Flexelene™ SFX – USP Class VI

Biomedical Tubing

- Ultra clear and flexible
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4
- Part Number: SFX

### Flexelene™ LTFX – USP Class VI

General Purpose - Low Temp Tubing

- Ultra-low extractables / leachables
- U.S. FDA 21 CFR 177.1520(c)3.2c
- Impact and Weather Resistant
- Thermally Weldable
- Heat Sealable
- Part Number: LTFX

## Antimicrobial

### Flexelene™ FXAG

Antimicrobial General Purpose Tubing

- Inner wall antimicrobial protected
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4
- Low gas and oxygen permeability
- Part Number: FXAG

### Flexelene™ CFXAG

Antimicrobial Tubing for Push-on Fittings

- Inner wall antimicrobial protected
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4
- Low gas and oxygen permeability
- Part Number: CFXAG

### Flexelene™ SFXAG

Antimicrobial Biomedical Tubing

- Inner wall antimicrobial protected
- Clear and flexible
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4
- Part Number: SFXAG

See reverse side for tubing comparison  
For more information, visit [www.eldonjames.com](http://www.eldonjames.com) or call 970-667-2728

# Tubing Selection Comparison Guide

To select the tubing that best fits your application, use the comparison table below. For custom applications including special constructions, lengths, assemblies and thermoformed tubing, contact us at 970-667-2728 or email us sales@eldonjames.com.

Tubing	Material	Shore A	Temp. Range °C (Temp. Range °F)	Cleanroom Production	Gamma Rating*	EtO	Autoclave	Welding	Heat Sealing	USP Class VI	ISO 10993-4 / ISO 10993-5	USP 661 E&L	BPOG Tested	REACH / RoHS / Prop 69	Barrier Properties*	Flexibility*	Price	Pump Durable	Chemical Resistance*
<b>FX</b>	POE	86	-40 °C to 80 °C (-40 °F to 176 °F)	-	10	✓	-	✓	✓	✓	✓	✓	✓	✓	10	7	\$	-	8
<b>CFX</b>	POE	86	-40 °C to 80 °C (-40 °F to 176 °F)	-	10	✓	-	✓	✓	✓	✓	✓	✓	✓	10	7	\$	-	8
<b>LTFX</b>	POE	84	-40 °C to 55 °C (-40 °F to 131 °F)	-	10	✓	-	✓	✓	✓	✓	✓	✓	✓	10	7	\$	-	8
<b>SFX</b>	POE	73	-40 °C to 52 °C (-40 °F to 125 °F)	-	10	✓	-	✓	✓	✓	✓	-	-	✓	9	8	\$	✓	7
<b>MFX</b>	TPE Alloy	58	-57 °C to 57 °C (-70 °F to 135 °F)	✓	10	✓	-	✓	✓	✓	✓	-	-	✓	9	10	\$\$	✓	6
<b>MFX73M</b>	TPE Alloy	73	-57 °C to 57 °C (-70 °F to 135 °F)	✓	10	✓	-	✓	✓	✓	✓	-	-	✓	9	9	\$\$	✓	6
<b>MFX82M</b>	TPE Alloy	82	-57 °C to 62 °C (-70 °F to 145 °F)	✓	10	✓	-	✓	✓	✓	✓	-	-	✓	9	8	\$\$	✓	6
<b>MFX92R</b>	TPE Alloy	92	-57 °C to 62 °C (-70 °F to 145 °F)	✓	10	✓	-	✓	✓	✓	✓	-	-	✓	9	7	\$\$	-	6
<b>66E</b>	TPE	66	-50 °C to 121 °C (-58 °F to 250 °F)	✓	5.5	✓	-	✓	✓	✓	✓	-	-	✓	9	8	\$\$	✓	6
<b>75E</b>	TPE	75	-50 °C to 121 °C (-58 °F to 250 °F)	✓	5.5	✓	✓ <sup>1</sup>	✓	✓	✓	✓	-	-	✓	9	7	\$\$	✓	7
<b>84E</b>	TPE	84	-50 °C to 121 °C (-58 °F to 250 °F)	✓	5.5	✓	✓ <sup>1</sup>	✓	✓	✓	✓	-	-	✓	9	7	\$\$	✓	7
<b>95E</b>	TPE	95	-50 °C to 135 °C (-58 °F to 275 °F)	✓	5	✓	✓	✓	✓	✓	✓	-	-	✓	9	5	\$\$	-	7
<b>121C</b>	TPE	54	-50 °C to 121 °C (-58 °F to 250 °F)	✓	9	✓	✓ <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	8	9	\$\$	✓	5
<b>135C</b>	TPE	68	-80 °C to 135 °C (-112 °F to 275 °F)	✓	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	8	\$\$	✓	6
<b>Braided 135C</b>	TPE	68	-80 °C to 135 °C (-112 °F to 275 °F)	✓	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	8	\$\$	✓	6
<b>KFLEX</b>	TPU/ TPE	85	-50 °C to 80 °C (-58 °F to 176 °F)	✓	-	✓	-	-	-	✓	✓	-	-	✓	10	8	\$\$\$	-	9
<b>EJ Prene</b>	TPV Alloy	70	-50 °C to 135 °C (-58 °F to 275 °F)	✓	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	8	\$\$	✓	6
<b>TPU</b>	TPU	85	-50 °C to 80 °C (-58 °F to 175 °F)	-	9	✓	-	✓	✓	✓	✓	-	-	✓	9	8	\$\$	-	9

\* Based on a sliding scale of 1 to 10 with 10 being the best.

<sup>1</sup>Autoclave to 121°C

All tubing is Shore A tested using ASTM D2240 to determine a hardness range of +/- 4A from published standards.