

# 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
- 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 and ISO 10993-4
- Low gas and oxygen permeability

### 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
- 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, USP 661
- 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
- 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
- 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, USP 661
- Part Number: SFX

## Antimicrobial

### Flexelene™ FXAG

Antimicrobial General Purpose Tubing

- Inner wall antimicrobial protected
- Ultra-low extractables / leachables
- ISO 10993-5, ISO 10993-4, USP 661
- 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, USP 661
- 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, USP 661
- Part Number: SFXAG

See reverse side for tubing comparison

## Tube Selection Comparison Table

To select the tubing that best fits your application, use the comparison table below. For more information on a specific tubing, refer to the reverse side or visit us online at [www.eldonjames.com](http://www.eldonjames.com). For custom applications including special constructions, lengths, assemblies and thermoformed tubing.

Tubing	Material	Shore A	Temp. Range °C	Temp. Range °F	Cleanroom Production	Gamma Rating*	EtO	Autoclave	Antimicrobial Protected	Welding	Heat Sealing	USP Class VI	ISO 10993-4 ISO 10993-5	Barrier Properties	Flexibility*	Price	Pump Durable	Chemical Resistance
FX	POE	86	-40 °C to 76 °C	-40 °F to 170 °F	-	10	✓	-	-	✓	✓	✓	✓	10	7	\$	-	8
FXAG	POE+AG	86	-40 °C to 76 °C	-40 °F to 170 °F	✓	-	✓	-	✓	✓	✓	-	-	10	7	\$\$	-	8
CFX	POE	86	-40 °C to 76 °C	-40 °F to 170 °F	-	10	✓	-	-	✓	✓	✓	✓	10	7	\$	-	8
CFXAG	POE+AG	86	-40 °C to 76 °C	-40 °F to 170 °F	✓	-	✓	-	✓	✓	✓	-	-	10	7	\$\$	-	8
SFX	POE	≤73	-40 °C to 52 °C	-40 °F to 125 °F	-	10	✓	-	-	✓	✓	✓	✓	9	8	\$	✓	7
SFXAG	POE+AG	≤73	-40 °C to 52 °C	-40 °F to 125 °F	✓	-	✓	-	✓	✓	✓	-	-	9	8	\$\$	✓	7
MFX	TPE Alloy	58	-57 °C to 57 °C	-70 °F to 135 °F	✓	10	✓	-	-	✓	✓	✓	✓	9	10	\$\$	✓	6
MFX73M	TPE Alloy	73	-57 °C to 57 °C	-70 °F to 135 °F	✓	10	✓	-	-	✓	✓	✓	✓	9	9	\$\$	✓	6
MFX82M	TPE Alloy	82	-57 °C to 62 °C	-70 °F to 145 °F	✓	10	✓	✓ <sup>1</sup>	-	✓	✓	✓	✓	9	8	\$\$	✓	6
MFX92R	TPE Alloy	92	-57 °C to 62 °C	-70 °F to 145 °F	✓	10	✓	✓ <sup>1</sup>	-	✓	✓	✓	✓	9	7	\$\$	-	6
66E	TPE	66	-50 °C to 121 °C	-58 °F to 250 °F	✓	5.5	✓	-	-	✓	✓	✓	✓	9	8	\$\$	✓	6
75E	TPE	75	-50 °C to 121 °C	-58 °F to 250 °F	✓	5.5	✓	-	-	✓	✓	✓	✓	9	7	\$\$	✓	7
84E	TPE	84	-50 °C to 121 °C	-58 °F to 250 °F	✓	5.5	✓	-	-	✓	✓	✓	✓	9	7	\$\$	✓	7
95E	TPE	95	-50 °C to 135 °C	-58 °F to 275 °F	✓	5	✓	✓	-	✓	✓	✓	✓	9	5	\$\$	-	7
121C	TPE	54	-50 °C to 121 °C	-58 °F to 250 °F	✓	9	✓	✓ <sup>1</sup>	-	✓	✓	✓	✓	8	9	\$\$	✓	5
135C	TPE	68	-50 °C to 135 °C	-58 °F to 275 °F	✓	9	✓	✓	-	✓	✓	✓	✓	8	8	\$\$	✓	6
Braided 135C	TPE	68	-50 °C to 135 °C	-58 °F to 275 °F	✓	9	✓	✓	-	✓	✓	✓	✓	8	8	\$\$	✓	6
KFLEX	TPU/TPE	85	-50 °C to 80 °C	-58 °F to 176 °F	✓	-	✓	-	-	-	-	✓	✓	10	8	\$\$\$	-	9
EJ Prene	TPV Alloy	70	-50 °C to 135 °C	-58 °F to 275 °F	✓	9	✓	✓	-	✓	✓	✓	✓	8	8	\$\$	✓	6
EJ Prene	TPV Alloy	80	-50 °C to 135 °C	-58 °F to 275 °F	✓	9	✓	✓	-	✓	✓	✓	✓	8	8	\$\$	✓	6

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

<sup>1</sup>Autoclave to 121°C