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 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 661Tested
- 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 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*
FX	POE	86	-40 °C to 80 °C (-40 °F to 176 °F)	-	10	✓	-	✓	✓	✓	✓	✓	-	✓	10	7	$	-	8
CFX	POE	86	-40 °C to 80°C (-40 °F to 176 °F)	-	10	✓	-	✓	✓	✓	✓	✓	-	✓	10	7	$	-	8
LTFX	POE	84	-40 °C to 55 °C (-40 °F to 131 °F)	-	10	✓	-	✓	✓	✓	✓	-	-	✓	10	7	$	-	8
SFX	POE	73	-40 °C to 52 °C (-40 °F to 125 °F)	-	10	✓	-	✓	✓	✓	✓	-	-	✓	9	8	$	✓	7
MFX	TPE Alloy	58	-57 °C to 121°C (-70 °F to 250°F)	✓	10	✓	-	✓	✓	✓	✓	-	-	✓	9	10	$$	✓	6
MFX73M	TPE Alloy	73	-57 °C to 121 °C (-70 °F to 250 °F)	✓	10	✓	-	✓	✓	✓	✓	-	-	✓	9	9	$$	✓	6
MFX82M	TPE Alloy	82	-57 °C to 121°C (-70 °F to 250°F)	✓	10	✓	✓[1]	✓	✓	✓	✓	-	-	✓	9	8	$$	✓	6
MFX92R	TPE Alloy	92	-57 °C to 121 °C (-70 °F to 250 °F)	✓	10	✓	✓[1]	✓	✓	✓	✓	-	-	✓	9	7	$$	-	6
66E	TPE	66	-50 °C to 121 °C (-58 °F to 250 °F)	✓	5.5	✓	-	✓	✓	✓	✓	-	-	✓	9	8	$$	✓	6
75E	TPE	75	-50 °C to 121 °C (-58 °F to 250 °F)	✓	5.5	✓	✓[1]	✓	✓	✓	✓	-	-	✓	9	7	$$	✓	7
84E	TPE	84	-50 °C to 121 °C (-58 °F to 250 °F)	✓	5.5	✓	✓[1]	✓	✓	✓	✓	-	-	✓	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	✓	✓[1]	✓	✓	✓	✓	✓	✓	✓	8	9	$$	✓	5
135C	TPE	68	-80°C to 135°C (-112°F to 275°F)	✓	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	8	$$	✓	6
Braided 135C	TPE	68	-80°C to 135°C (-112°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	$$	✓	6
TPU	TPU	85	-50°C to 80 °C (-58°F to 175 °F)	-	9	✓	-	✓	✓	✓	✓	-	-	✓	9	8	$$	-	9

* Based on a sliding scale of 1 to 10 with 10 being the best.
[1] Autoclave to 121°C
All tubing is Shore A tested using ASTM D2240 to determine a hardness range of +/- 4A from published standards.