



**BIOPROCESS
SUPPLIES**

Flexelene™ TPE

EJ Prene

PharMed®

Bioprene®

Silicone

**Guide for tubing choices from
our trusted vendors**





Flexene™ TPE (thermoplastic elastomer) 121C/135C

This tubing is ideal for use in peristaltic pumps, thermo welders and autoclaves. Our tube can withstand high-molar acids and bases. Sterilize up to 135°C with out sealing. Welds to all major brands.

Key Features of TPE

- ISO 10993-5 - non-cytotoxic
- ISO 10993-4 - non-hemolytic
- No DEHP additives
- Gamma resistance to 45 kGy
- Low gas and oxygen permeability
- Autoclavable to 135°C
- No halogens or phthalates
- Autoclave, gamma and EtO sterilization
- Non-pyrogenic material
- Low protein binding
- Brittle temp. -88 °F
- Peristaltic Pump Compatible
- Thermally weldable
- Animal Derivative Free
- 50°C to 135°C (-58°F to 275°F) Brittle at-88°F
- -50°C to 121°C (-58°F to 250°F) Brittle at- 88°F
- Hardness: 135 Shore A 68 /121 A 54- Pump up to 500 hours

Manufactured by Eldon James Corporation for Bioprocess Supplies. Find more information on

Flexelene™ www.eldonjames.com

TPE 121/135 also manufactured by Masterflex; find out more at www.vwr.com

EJ Prene Peristaltic Tubing



This environmentally green tubing was created for peristaltic pump applications and has superb pump life and durability. Great chemical compatibility, lightweight, flexible, and reduces tube failures. First alternative for Santoprene.

Key Feature & Benefits:

- Withstands multiple autoclave cycles, EtO & Gamma sterilization to 45 kGy
- Compatible with most CIP and SIP
- 70 and 80 Shore A, soft and flexible
- Opaque to Ultra violet and visible light
- Low extractables and leachables
- Temperature ranges -50 °C to +135 °C
- Permeability in gas and oxygen is low • USP Class VI
- Non-Hemolytic - ISO 10993-4
- Non-Cytotoxic - ISO 10993-5
- No DEHP Phthalates or plasticizers
- Non-animal derived (BSE and TSE compliant)
- PVC and BPA free



Manufactured by Eldon James Corporation for Bioprocess Supplies. Find more information on EJ Prene
www.eldonjames.com

PharMed® Tubing

PharMed® Tubing was formulated to handle the tribulations of a peristaltic pump while also providing biocompatibility fluid surfaces required in sensitive applications. Suitable for protecting cell cultures, control systems, process monitoring, separation, purification, fermentation, and more. Great acid, alkali and oxidation resistance, and overall good general chemical resistance. Designed with opaque tubing to provide protection from visible and UV light.

Key Features & Benefits of PharMed®

Temperature range: -51 °C-135 °C (-60 °F to 275 °F)

- Meets USP 88 Biological Reactivity Test, in Vivo - Class VI
- Hardness (Shore A: 64)
- Autoclavable
- Less permeable than silicone
- Low particulate spallation
- Great Wear Properties
- Excellent flex life characteristics




Bioprene® Thermoplastic Tubing



Bioprene® peristaltic pump tubing is USP Class VI and FDA compliant. This tubing is known for its long pump life, helping reduce risk in cGMP applications. Produced of synthetic components: no natural rubber is used in the production of this product. Widely applicable in biopharmaceutical facilities, manufactured by Watson Marlow, a trusted name in the industry.

Key Features & Benefits

- USP Class VI
 - Gamma Irradiation: up to 35kGy
 - Autoclavable: 121° - 30 minutes
 - EtO sterilization
 - Spallation: Low
 - Opaque design
 - Available in 15 different standard sizes
 - Demonstrates broad chemical compatibility
 - Low extractables; no phthalates added or latex used
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Silicone Tubing

AdvantaSil® Platinum Cured Silicone Tubing

Clean room produced for multiple applications including pharmaceutical and biopharma. This low volatile grade tubing has undergone physical, chemical and biological testing.

Key Features and Benefits

- Quarterly particulate testing per USP 788
- Free of animal derived ingredients
- Temperature range: -73.3 °C to 204.4 °C
- Autoclavable or Gamma Radiation



*Manufactured by NewAge AdvantaPure for Bioprocess Supplies. Find more information on AdvantaSil® visit www.advantapure.com

Pumpsil platinum-cured silicone tubing

Designed specifically for the bio-pharmaceutical industry, creating a smooth bore which in turn helps reduce protein binding, and allowing high purity in final product. widely used in single-use applications, as well as accurate metering, transfer/filtration, and pH control/media feed in fermentation.

Key Features and Benefits

- Documentation on bio-compatibility & comprehensive validation pack
- Complete traceability with laser etched lots and expiration date
- Available in a large range of sizes
- Sterilization: Autoclave, EtO, & Gamma
- Operating temperatures of -20 °C to 80 °C
- USP Class VI certification and many more*

*Manufactured by WatsonMarlow for Bioprocess Supplies. Find more information on Pumpsil tubing visit www.wmfts.com



BIOPROCESS SUPPLIES

Size Guide for designing your application

MF#	ID (inches)	Metric (mm)	WALL (inches)	Metric (mm)	OD (inches)	Metric mm
1.6 mm Wall Tubing						
112	1/50	0.5	1/16(0.063)	1.6	29/200 (0.145)	3.7
13	1/32	1.6	1/16(0.063)	1.6	5/32 (0.156)	4.0
14	1/16 (0.063)	1.6	1/16 (0.063)	1.6	3/16 (0.188)	4.8
16	1/8 (0.125)	3.2	1/16 (0.063)	1.6	1/4 (0.250)	6.4
25	3/16 (0.188)	4.8	1/16 (0.063)	1.6	5/16 (0.313)	8.0
17	1/4 (0.250)	6.4	1/16 (0.063)	1.6	3/8 (0.375)	9.7
18	5/16 (0.313)	8.0	1/16 (0.063)	1.6	7/16 (0.438)	11.0
	3/8 (0.375)	9.7	1/16 (0.063)	1.6	1/2 (0.500)	12.7
2.4 mm Wall Tubing						
119	1/16 (0.063)	1.6	3/32 (0.094)	2.4	1/4 (0.250)	6.4
15	3/16 (0.188)	4.8	3/32 (0.094)	2.4	3/8 (0.375)	9.7
120	1/8 (0.125)	3.2	3/32 (0.094)	2.4	5/16 (0.313)	8.0
24	1/4 (0.250)	6.4	3/32 (0.094)	2.4	7/16 (0.438)	11.0
35	5/16 (0.313)	8.0	3/32 (0.094)	2.4	1/2 (0.500)	12.7
36	3/8 (0.375)	9.7	3/32 (0.094)	2.4	9/16 (0.563)	14.4
86	1/2 (0.500)	12.7	3/32 (0.094)	2.4	11/16 (0.688)	17.5
3.2 mm Wall Tubing						
26	1/4 (0.250)	6.4	1/8 (0.125)	3.2	1/2 (0.500)	12.7
73	3/8 (0.375)	9.7	1/8 (0.125)	3.2	5/8 (0.625)	15.9
82	1/2 (0.500)	12.7	1/8 (0.125)	3.2	3/4 (0.750)	19.1
184	5/8 (0.625)	15.9	1/8 (0.125)	3.2	7/8 (0.875)	22.4
	3/4 (0.750)	19.1	1/8 (0.125)	3.2	1.000	25.6
4.8 mm Wall Tubing						
88	1/2 (0.500)	12.7	3/16 (0.188)	4.8	7/8 (0.875)	22.4
191	3/4 (0.750)	19.1	3/16 (0.188)	4.8	1-1/8 (1.125)	28.8
92	0.900	25.6	3/16 (0.188)	4.8	1-3/8 (1.375)	35.2
70	3/8 (0.375)	9.7	3/16 (0.188)	4.8	3/4 (0.750)	19.1
89	5/8 (0.625)	15.9	3/16 (0.188)	4.8	1.000	25.6
90	3/4 (0.750)	19.1	1/4 (0.250)	6.4	1-1/4 (1.250)	32.0
120	1.000	25.6	1/4 (0.250)	6.4	1-1/2 (1.500)	38.0

Contact us about special sizes, reels/spools, custom cut lengths, Gamma Irradiated Coils and Lengths, Custom Single Use Assemblies, and more.

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