



Parflex Instrumentation

Hose & Tubing



ENGINEERING YOUR SUCCESS.

Thermoplastics

Parflex thermoplastic tubing is the economical choice for basic media transfer applications. Parflex offers a wide range of resins, each bringing their own features to

the customer. Sizes, flexibility, chemical compatibility, colors, clarity, strength and customization options vary depending on resin selection.

Polyethylene Tubing

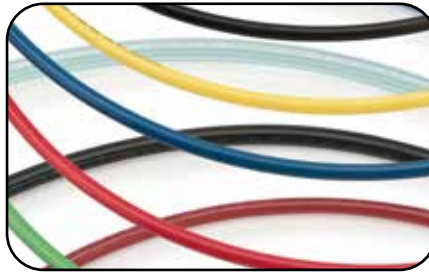
Series E, Instrument Grade; Series EB, Ultraviolet Light Resistant - Chemically resistant, flexible, high-dimensional stability and long-term strength. Working pressure up to 145 psi. -80°F to 150°F. Sizes 1/4" - 5/8" O.D.; 6mm-12mm. Meets FDA, NSF-51 & NSF-61 requirements. Assorted colors.

Polyurethane Tubing

Series 95U, Series 95UM Polyether Base- Tough, flexible and kink-resistant. Excellent hydrolytic stability. 90-95 Shore A durometer. Working pressure up to 125 psi. -40°F to 180°F. Sizes 1/8" - 3/4" O.D.; 4mm-12mm. Assorted colors.

Nylon Tubing

Series N, Flexible - Flexible, abrasion resistant tubing. Heat and light stabilized for outdoor service. Excellent chemical resistance. Working pressure up to 500 psi. -65°F to 200°F. Sizes 1/8" - 1/2" O.D.; 4mm-20mm. Assorted colors. Natural and black meets UL94HB requirements. Contact Parflex for availability of UL products.



Series PEFR, Flame Resistant - Excellent stress crack resistance. Preferred product for pneumatic control applications in the HVAC and energy conservation industry. Working pressure up to 185 psi. -85°F to 150°F. Sizes 5/32" - 1/2" O.D. Meets UL94V-2 flame classification. Black.

Series 95FR - Flame retardant, light-weight and abrasion resistant. Ideal for air/water supply on robots, end-of-arm tooling for robotic-welding systems or general automation applications. Working pressure up to 175 psi. -40°F to 165°F. Sizes 1/4" - 1/2" O.D. Meets UL-94V0 flame classification. Assorted colors.

Series NR, Semi-Rigid High Strength - Better chemical resistance than Series N. Good resistance to high ambient temperature and moisture absorption. Working pressure up to 625 psi. -60°F to 200°F. Sizes 1/8" - 1/2" O.D. Black and natural.

Series PAT, Pure Air Tubing - For use in air and gas distribution systems. Excellent resistance to chemicals and ultraviolet light, low moisture absorption and high tensile strength. Working pressure up to 350 psi. -70°F to 200°F. Sizes 1/8" - 3/4" O.D. Black, brown and silver.

Typical Applications

- Pneumatics
- Fluid Handling
- Chemical Transfer
- High Purity

Fluoropolymers

Parflex fluoropolymer tubing is available from the Parflex manufacturing facility in Fort Worth, Texas.

Fluoropolymer tubing features a low coefficient of friction and anti-stick properties, high temperature capabilities and the most corrosion and chemical resistance of all polymers. Within normal use temperatures, fluoropolymers are attacked by so few chemicals that it is easier to describe the exceptions rather than list the chemicals they are compatible with. These chemically inert tubes are non-wetting and non-leaching, making them ideal for a wide range of fluid and material handling applications.

Parflex fluoropolymer tubing is available in PTFE, FEP, and PFA with some materials operating at temperatures up to 500°F/260°C. Each material has specific dominant characteristics such as increased clarity, long lengths and increased mechanical strength. Custom sizes and designs available.

PTFE

Offered in beading, smoothbore tubing, convoluted and heat shrinkable tubing. PTFE tubing features unmatched chemical resistance and a non-stick surface that facilitates flow and eliminates media buildup. Best flex life and lowest coefficient of friction. Sizes from .010" I.D. up to 2" O.D.

FEP

Offered in smoothbore tubing, convoluted, corrugated, retractable coils and heat shrinkable tubing. FEP tubing features the best clarity and is a close second to PTFE in chemical resistance. Available in long, continuous lengths (1,000 feet and longer). Sizes from .010" I.D. up to 2" O.D.

PFA

Offered in smoothbore tubing, convoluted, corrugated, retractable coils and heat shrinkable tubing. Best purity. When temperature and clarity are both factors, PFA is the resin of choice. Offers the high-temp attributes of PTFE, long continuous lengths, and almost as much clarity as FEP.

Typical Applications

- High Temperature Applications
- Corrosive Applications
- Chemical Transfer
- Fluid Handling
- High Purity Applications
- Peristaltic Pump
- Analytical Instruments
- Food & Beverage
- Laboratory
- Semiconductor



PTFE Hose

Smoothbore

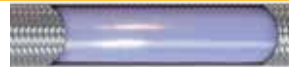
Smoothbore PTFE Hose		
Part No.		Description
 919	 919B	PTFE Braided Hose Natural and Static Dissipative
 STW	 STB	True-Bore PTFE Braided Hose Natural and Static Dissipative
 929	 929B	Heavy Wall PTFE Braided Hose Natural and Static Dissipative
 944B	 955B	High Pressure PTFE Braided Hose Static Dissipative
 919J	 919BJ	Silicone Jacketed PTFE Braided Hose, Natural and Static Dissipative
 919U		Polyurethane Jacketed PTFE Braided Hose, Natural and Static Dissipative
 929BJ		Silicone Jacketed Heavy Wall PTFE Braided Hose Static Dissipative

Use static-dissipative core tube when conveying non-conducting fluids such as paints, fuels, steam, etc.

Typical Applications

- High Temp. Applications
- Corrosive Applications
- Sampling/Analyzing Lines
- Chemical Transfer
- Fluid Handling
- Laboratory

ALL NATURAL CORE TUBES ARE FDA COMPLIANT



919/919B

625-3000 psi. -100°F to 450°F. Sizes 3/16" - 1-1/8" I.D. dependent on type. 919B/S30B - Static Dissipative. 304 SS Braid.

919J/919BJ/919U

Added jacket protection.

919J/919BJ - Silicone. 1000 - 3000 psi. -40°F to 450°F. Sizes 3/16" - 7/8" I.D. 919BJ - Static Dissipative.

919U - Polyurethane. 1000 - 3000 psi. -40°F to 275°F. Sizes 3/16" - 7/8" I.D.

STW/STB

True bore hose. Larger inside diam. to speed up the flow of the media through the tube. 900 - 3000 psi. -100°F to 450°F. Sizes 1/4" - 1-1/2" I.D. STB - Static Dissipative. 304 SS Braid.

High Pressure PTFE Hose

High pressure PTFE hose. Static Dissipative. 4000 - 5500 psi. -100°F to 400°F. Sizes 15/64" - 29/32" I.D. dependent on type. 304 SS Braid.

944B - 4000-4500 psi
955B - 5500 psi

929/929B

Tight bend radius. Increased wall thickness .040". 1000 - 3000 psi. -100°F to 450°F. Sizes 3/16" - 7/8" I.D. 929B - Static Dissipative. Sizes 3/16" - 1" I.D. 304 SS Braid.









929BJ

Same applications as 929B except with silicone jacket protection. Static dissipative core tube. Steam cleanable. 1200 - 3000 psi. -100°F to 450°F. Sizes 3/16" - 7/8" I.D.



PTFE Hose

Convoluted

Convoluted PTFE Hose		
Part No.		Description
 939	 939B	Convoluted PTFE Braided Hose Natural and Static Dissipative
 SCW	 SCB	Convoluted PTFE Braided Hose Natural and Static Dissipative
 SCWV	 SCBV	Convoluted Heavy Wall PTFE Braided Hose, Natural and Static Dissipative
 NCW	 NCB	Convoluted PTFE Nomex Braided Hose Natural and Static Dissipative



ALL NATURAL CORE TUBES ARE FDA COMPLIANT



939/939B

Exceptional kink resistance. Transfer lines for nearly all chemicals. 250 - 1500 psi. -100°F to 450°F. Sizes 3/8" - 2" I.D. 304SS Braid. 939B - Static Dissipative.

SCW/SCB

Exceptional kink resistance. Transfer lines for nearly all chemicals. 450 - 1500 psi. -100°F to 500°F. Sizes 1/4" - 2" I.D. 316SS Braid. SCB - Static Dissipative.

SCWV/SCBV

Heavy wall convoluted. 150 - 1500 psi. -100°F to 500°F. Sizes 1/2" - 2" I.D. 316SS Braid. SCBV- Static Dissipative.

Use static-dissipative core tube when conveying non-conducting fluids such as paints, fuels, steam, etc.



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