

Polyflex PFA Tubing



- Flexible fluoropolymer tubing with best combination of handling corrosive chemicals, clarity and high temperature of all fluoropolymers.
- Non-stick surface, low refractive index and available in long continuous lengths.
- Low coefficient of friction, anti stick surface.
- Inert material that is non-wetting and non-leachable.
- Temperature range -200°C to +260°C.
- Can be sterilised with Gamma, Ethylene Oxide or autoclave.
- Odourless, non-toxic, transparent tube.
- Can be used with flare and conventional fittings.



Contact

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Benefits

- Transparent Flexible tubing
- High operating temperature
- Handles aggressive chemicals
- Easy to clean
- Will not contaminate tube contents
- Non-flammable
- Available as High Purity PFA for special applications

Applications

Life Science

- General Laboratory tubing
- Analytical diagnostics
- Liquid Chromatography

Others

- Corrosives
- Chemical Processing
- Pulp / Paper manufacturing



ENGINEERING YOUR SUCCESS.

Polyflex PFA Tubing

MAIN FEATURES:

- Manufactured in a factory with ISO 9001 and ISO 13485.
- Materials comply with ASTM D3295.
- Listed as UL 94 V0 passes the UL 83 vertical flame test.
- Meets FDA requirements and USP 23 class VI.

CONSTRUCTION:

- Perfluoroalkoxy material

REMARKS:

- Convoluted and corrugated versions are available on request.
- Tubing is sold in 30 m boxes.
- Tubes supplied as standard in Natural colour.
- Other lengths, sizes (metric and imperial) and colours are available on a made to order basis with MOQ's.
- Black tubing is conductive. Industrial grade conductivity conforms to AMS-H-27267 having a minimum conductance of 10-20 micro amps with 1,000 vdc applied over a 14" length.

SIZES AND DATA:

Part Number	Tube O.D. x wall thickness	Maximum working pressure MPa	Weight g/m
Polyflex PFA Industrial Wall Fractional Size Tubing			
104-0125031-NT-100	1/8 x 0.031	3.4	13
104-0250031-NT-100	1/4 x 0.031	1.6	29
104-0375031-NT-100	3/8 x 0.031	1.2	46
104-0500031-NT-100	1/2 x 0.031	1.0	62

Polyflex PFA Heavy Wall Tubing			
104-0250040-NT-100	1/4 x .170	2.1	36
104-0250047-NT-100	1/4 x 0.047	2.6	41
104-0250062-NT-100	1/4 x 0.062	3.4	50
104-0375062-NT-100	3/8 x 0.062	2.2	83
104-0500062-NT-100	1/2 x 0.062	1.6	117
104-0750062-NT-100	3/4 x 0.062	1.0	183
104-1000062-NT-100	1 x 0,062	0.7	250

Metric Polyflex PFA Tubing			
204-0600100-NT-100	6mm x 1mm	2.2	33
204-0800100-NT-100	8mm x 1mm	1.6	40
204-1000100-NT-100	10mm x 1mm	1.2	60
204-1200100-NT-100	12mm x 1mm	1.0	73

Notes: Vacuum operation to -1 Bar.

TECHNICAL SPECIFICATIONS :	PFA tubing	value / rating	ASTM or Unit
	Specific gravity	2.12 - 2.17	D792
	Hardness Durometer Shore D	55 - 60	D2240
	Tensile strength (psi)	4,000 -5,000	D638
	Elongation %	280 - 400	D638
	Water Absorbtion 24h, %	< 0.03	D570
	Upper service temperature (20000h) in °C	260	-
	Sterilization method - autoclavable steam	yes	-
	Sterilization method - gas	yes	-
	Sterilization method - radiation	yes	-
	Compliant with following regulations:	ASTM D3307-10; VW-1, UL-83 (natural); FDA Compliant; USP Class VI Compliant	



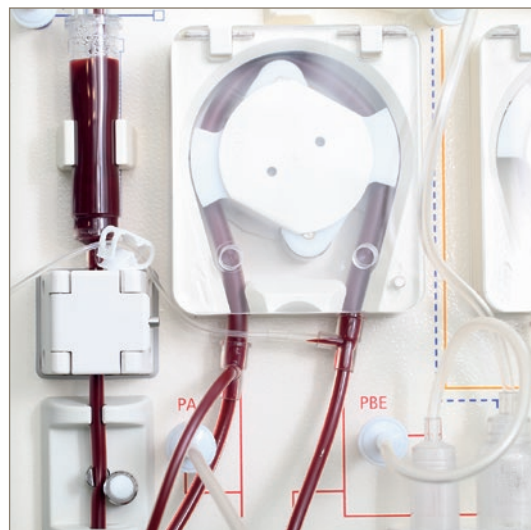
**Filling
Machine**



**Blood Pressure
monitoring**



Bioreactors



**Peristaltic
Pumps**

Technical Information

Summary of Properties for all PFDE Life Science Tubing.

Product	Silicone tubing	PTFE tubing	PFA tubing	FEP tubing
Material Type	Platinum cured Silicone	PTFE	PFA	FEP
Sizes	Inch & Metric	Inch & Metric	Inch & Metric	Inch & Metric
Medical grade USP 23 Class VI	Yes	Yes	Yes	Yes
ISO 10993 (Material)	Yes			
Sterilisable by Gamma, ETO or Steam Autoclave	All	ETO & Steam	All	All
Temperature Range	-60 °C to +200 °C	-73 °C to +260 °C	-73 °C to +260 °C	-73 °C to +205 °C
Density	1.18g/cm ³	1.12g/cm ³	1.12g/cm ³	1.12g/cm ³
Flex Life	++	+++++	+++	++
Abrasion Resistance	++	+++	++	+++
Packaging	25m bagged	30 m, 150m and 300m bagged	30 m, 150m and 300m bagged	30 m, 150m and 300m bagged
Appearance	Translucent	Translucent-white	Transparent	Transparent
Extractable Content	++++	++	+++++	+++
Chemical Resistance	++++	+++++	+++++	+++++
Working Pressure Mpa for 1/4 inch OD with 1/32 wall		0.9	1.6	1.4
Additional Information	Platinum cured with post extrusion curing. Can be coloured.	Non stick easy to clean lubricious (5+)	Non stick easy to clean lubricious (4+)	Non stick easy to clean lubricious (4+)
Applications	Pharmaceutical, Biomedical and Medical	Medical	Medical & Laboratory. High Purity PFA for Semicon	Laboratory & Pharmaceutical

Also available:

- Etched tubing for good bonding with other materials
- Flexible Convolutated Tubing
- Very Flexible Corrugated Tubing
- Heatshrink tubing
- Spiral cut cable wrap
- Retractable Coiled Tubing
- Braided Hoses and assemblies

