TPE TUBING

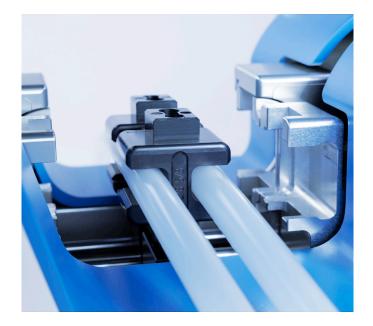
When a single drop of fluid can make the difference in someone's health, you need smart fluid handling solutions that get the job done safely. Manufacturers worldwide rely on connector products that improve yield, cut costs and reduce time to market.

FlowLinX[®] TPE tubing is designed for your highpurity drug processing needs. It is perfectly suited for processes requiring high chemical compatibility tubing, and can be welded, heat sealed, or overmolded to ensure fluid line integrity. Manufactured in ISO 8 cleanrooms, this tubing is animal component free and meets USP <85>.

REGULATORY OVERVIEW:

Material of Construction
TPE (Thermoplastic elastomer)
Biocompatibility
USP <85>, Bacterial Endotoxin
USP <88>, Biological Reactivity Tests, Class VI, In Vivo
USP <87>, Biological Reactivity Tests, Class VI, In Vitro
ISO 10993-4, Hemolysis
ISO 10993-10, Irritation and Sensitization
ISO 10993-11, Systemic Toxicity
Physiochemical
USP <661>, Plastic Packaging Systems
EP 3.2.9, Rubber Closures for Containers
FDA 21CRF 177.2600, Rubber Articles Intended for Repeated Use
Extractables
Per USP <665>
Legislation
REACH
RoHS
Conflict Mineral
Shelf Life
5 Years, Non-Sterile/Non-Irradiated







TPE TUBING

A SUSTAINABLE ALTERNATIVE MATERIAL

The FlowLinX[®] TPE tubing also represents a sustainable alternative material. Our TPE is created with 40% 1st generation biomass. Its carbon footprint is nearly 25% lower compared to its standard counterpart without compromising form, fit, and function requirements.

For a small company purchasing a little over 215,000 feet of TPE per year, switching from industry-standard TPE to F-Flex will save 7.63 tons of CO₂ annually.

	UNIT	STANDARD TPE	F-FLEX-22520
Durometer Hardness	Shore A, 10 sec	67	70
Specific Gravity	-	0.89	0.88
Tensile Strength (Break, 73° F)	psi	1180	1190
Tensile Elongation (Break, 73° F)	%	600	630
Viscosity (392 °F, 1340s-1)	Pa s	82	54
Compression Set @ 72° F	%	19%	18%
Compression Set @ 212° F	%	69%	58%
Bio-based content weight (Gen 1 biomass)	%	0%	40%
Cradle-to-gate Product Carbon Footprint (PCF)	kg CO2e / kg product	3.10 kg	2.35 kg

PART NUMBERS

						TUDINO	COIL SIZE		
ID (INCH)	ID (MM)	OD (INCH)	OD (MM)	WALL (INCH)	WALL (MM)	tubing Size Number	25 FT (7.5 M)	50 FT (15 M)	
1/8	3.2	1/4	6.4	1/16	1.6	16	F-FLEX-0125-0250-C25	F-FLEX-0125-0250-C50	
3/16	4.8	5/16	8	1/16	1.6	25	F-FLEX-0188-0313-C25	F-FLEX-0188-0313-C50	
3/16	4.8	3/8	9.6	3/32	2.4	15	F-FLEX-0188-0375-C25	F-FLEX-0188-0375-C50	
1/4	6.4	3/8	9.6	1/16	1.6	17	F-FLEX-0250-0375-C25	F-FLEX-0250-0375-C50	
1/4	6.4	7/16	11.2	3/32	2.4	24	F-FLEX-0250-0438-C25	F-FLEX-0250-0438-C50	
1/4	6.4	1/2	12.8	1/8	3.2	26	F-FLEX-0250-0500-C25	F-FLEX-0250-0500-C50	
5/16	8	7/16	11.2	1/16	1.6		F-FLEX-0313-0438-C25	F-FLEX-0313-0438-C50	
5/16	8	1/2	12.8	3/32	2.4	35	F-FLEX-0313-0500-C25	F-FLEX-0313-0500-C50	
3/8	9.6	1/2	12.8	1/16	1.6		F-FLEX-0375-0500-C25	F-FLEX-0375-0500-C50	
3/8	9.6	9/16	14.3	3/32	2.4	36	F-FLEX-0375-0563-C25	F-FLEX-0375-0563-C50	
3/8	9.6	5/8	15.9	1/8	3.2	73	F-FLEX-0375-0625-C25	F-FLEX-0375-0625-C50	
1/2	12.8	3/4	19	1/8	3.2	82	F-FLEX-0500-0750-C25	F-FLEX-0500-0750-C50	
5/8	15.9	7/8	22.3	1/8	3.2		F-FLEX-0625-0875-C25	F-FLEX-0625-0875-C50	
3/4	19	1	25.4	1/8	3.2	90	F-FLEX-0750-1000-C25	F-FLEX-0750-1000-C50	
3/4	19	1 1/8	34.9	3/16	4.8		F-FLEX-0750-1125-C25	F-FLEX-0750-1125-C50	
1	25.4	1 3/8	34.9	3/16	4.8		F-FLEX-1000-1375-C25	F-FLEX-1000-1375-C50	

