

GENERAL DESCRIPTION



Accept no substitutes – use Masterflex[®] pump tubing in your pumps. These tubing chemistries are extruded to extremely tight tolerances providing repeatability, reproducibility and accuracy that one demands in your workflows. Wide product offering allows for choosing appropriate chemical compatibility to best match the media being moved; 24 chemistries with 16+ having pharma regulatory approvals.

APPLICATION

Masterflex[®] Puri-Sil™ Pump Tubing is designed to work with wide offering of Masterflex[®] pump heads. Due to its long lifetime and durability, Masterflex[®] Puri-Sil™ Pump Tubing is intended for applications like biopharmaceutical manufacturing, biotech, R&D, cell therapy and gene therapy applications in bioproduction or lab environment. The use of this tube in your chosen application is not limited to these applications, but can be utilized where a high performing platinum-cured silicone is needed in production of critical final products.



FEATURES & BENEFITS

- Regulatory compliance and supports:
 - Meets the following classifications: USP Class VI, ISO 10993 Part 4 (nonhemolytic) and Part 5 (noncytotoxic), Extractable, USP788
 - Statements: ADCF (Animal Derived Component Free), REACH, RoHS
- Gamma irradiation stable
- Low extractables*
- Low spallation (particle release) of product*
- Low protein binding*
- Translucent for sample viewing
- Full validation packet available for an easy and smooth adoption of the product

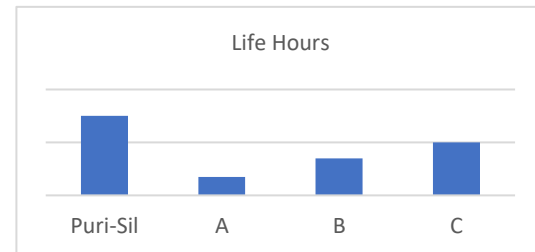
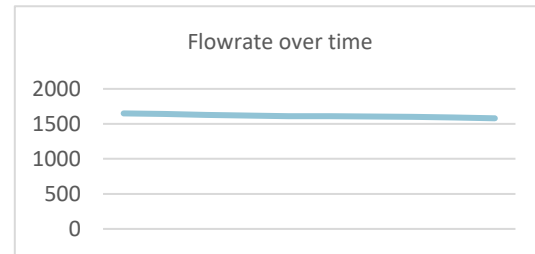
*Based on test results from an in-house and or third party analysis for similar pump tubings in the same family.

SUPERIOR DURABILITY WITHIN FLEXIBLE TUBING CATEGORY


- Sterilization:
 - Gamma Irradiation up to 45 kGy, EtO, autoclave
- Soft and flexible for long lifetime when operated in Masterflex[®] peristaltic pumps
- Temperature range:
 - Static: -60 to 232 °C (-75 to 450 °F),
 - Dynamic/Pumping: -40 to 100 °C (-40 to 212 °F)
- Good chemical resistance

PERFORMANCE SPECIFICATIONS

Formulation	Masterflex® CZ0626G		
Durometer, Shore A	45-55	Test Method:	ASTM D2240
Specific Gravity	1.10-1.40	Test Method:	ASTM D792
Elongation, %	300 minimum	Test Method:	ASTM D412
Tensile Strength, psi	1000 minimum	Test Method:	ASTM D412
Tensile Stress @100% elongation, psi	200	Test Method:	ASTM D412
Shelf Life	5 years		
Temperature	<ul style="list-style-type: none"> Store at room temperature Operating temperature -100 to 450°F 		



TUBING SELECTION / ORDERING INFORMATION

Pump tubing formulation	Advantages	Meets classifications	Application suitability ¹							Gas permeability	Sterilization
			Acids	Alkalies	Organic solvents	Pressure	Vacuum	Viscous fluids	Sterile fluids		
Pure-Sil™ Platinum-cured Silicone 	Ultra-smooth inner surface minimizes particle entrapment. Lower absorption; excellent biocompatibility; No DEHP, or plasticizers. Very low extractables. Odorless and nontoxic, fungus-resistant. Notaste imparted to transported fluids. Weather, ozone, corona, and radiation resistant. Translucent, clear to light amber.	USP Class VI, USP <87>, USP <88> USP <788> REACh (non-DEHP) compliant RoHS compliant ADCF compliant	N/R	N/R	N/R	F	G	F	E	CO ₂ : 25,147 H ₂ : — O ₂ : 4715 N ₂ : 2284	Sterilize by EtO, autoclave, or gamma irradiation.
			Temperature range: Static: -60 to 232°C (-75 to 450°F) Dynamic (pumping): -40 to 100°C (-40 to 212°F)								

Microbore / Auto Analysis Tubing Sizes

Tubing Size	ID		OD		Wall		Ft/Pk	Catalog Number
	Inches	Metric	Inches	Metric	Inches	Metric		
ISM 09	0.005	0.13	0.075	1.93	0.035	0.9	50	MFLX95412-09
ISM 10	0.008	0.19	0.078	1.99	0.035	0.9	50	MFLX95412-10
ISM 12	0.01	0.25	0.08	2.05	0.035	0.9	50	MFLX95412-12
ISM 14	0.015	0.38	0.085	2.18	0.035	0.9	50	MFLX95412-14
ISM 18	0.02	0.51	0.09	2.31	0.035	0.9	50	MFLX95412-18
ISM 22	0.025	0.64	0.095	2.44	0.035	0.9	50	MFLX95412-22
ISM 24	0.03	0.76	0.096	2.46	0.033	0.85	50	MFLX95412-24
ISM 26	0.035	0.89	0.101	2.59	0.033	0.85	50	MFLX95412-26
ISM 28	0.04	1.02	0.106	2.72	0.033	0.85	50	MFLX95412-28
ISM 30	0.045	1.14	0.111	2.84	0.033	0.85	50	MFLX95412-30
ISM 32	0.051	1.3	0.117	3	0.033	0.85	50	MFLX95412-32
ISM 34	0.056	1.42	0.122	3.12	0.033	0.85	50	MFLX95412-34
ISM 36	0.06	1.52	0.126	3.22	0.033	0.85	50	MFLX95412-36
ISM 38	0.065	1.65	0.131	3.35	0.033	0.85	50	MFLX95412-38
ISM 40	0.073	1.85	0.139	3.55	0.033	0.85	50	MFLX95412-40
ISM 42	0.081	2.06	0.147	3.76	0.033	0.85	50	MFLX95412-42
ISM 44	0.09	2.29	0.156	3.99	0.033	0.85	50	MFLX95412-44
ISM 48	0.11	2.79	0.176	4.49	0.033	0.85	50	MFLX95412-46
ISM 49	0.125	3.17	0.191	4.87	0.033	0.85	50	MFLX95412-48

Tubing Size	Hose Barb		Ft/Pk (m/pk)	Catalog Number
	Inches	Metric		
L/S® Precision Pump Tubing				
L/S 11	1/16"	1.6	25 (7.6)	MFLX97410-11
L/S 13	1/16"	1.6	25 (7.6)	MFLX97410-13
L/S 14	1/16"	1.6	25 (7.6)	MFLX97410-14
L/S 16	1/8"	3.2	25 (7.6)	MFLX97410-16
L/S 25	3/16"	4.8	25 (7.6)	MFLX97410-25
L/S 17	1/4"	6.4	25 (7.6)	MFLX97410-17
L/S 18	3/8"	9.5	25 (7.6)	MFLX97410-18
L/S® High-Performance Precision Pump Tubing				
L/S 15	3/16"	4.8	25 (7.6)	MFLX97410-15
L/S 24	1/4"	6.4	25 (7.6)	MFLX97410-24
L/S 35	3/8"	9.5	25 (7.6)	MFLX97410-35
L/S 36	3/8"	9.5	25 (7.6)	MFLX97410-36
I/P® Precision Pump Tubing				
I/P 26	1/4"	6.4	25 (7.6)	MFLX97410-26
I/P 73	3/8"	9.5	25 (7.6)	MFLX97410-73
I/P 82	1/2"	12.7	25 (7.6)	MFLX97410-82
I/P 84	5/8"	15.8	25 (7.6)	MFLX97410-84
I/P® High-Performance Precision Pump Tubing				
I/P 70	3/8"	9.5	10 (3.0)	MFLX97410-70
I/P 88	1/2"	12.7	10 (3.0)	MFLX97410-88
I/P 89	5/8"	15.8	10 (3.0)	MFLX97410-89
B/T® PerfectPosition® Pump Tubing				
B/T 87	1/2"	12.7	10 (3.0)	MFLX97410-87
B/T 91	3/4"	19	10 (3.0)	MFLX97410-91

Visit www.avantorsciences.com/masterflex for additional information on Masterflex® Peristaltic Pump and Fluid Handling Solutions.