



MedFlex® SIL050

Biomedical hygiene grade Pt silicone tubing

Characteristic Description

MedFlex® SIL050 is a clean platinum cured silicone tube developed specifically for biopharmaceutical processes and medical applications. Its excellent peristaltic pump life and excellent alkali resistance performance are widely suitable for pumping, conveying, loading, and packaging in biomedical process.

Platinum silicone tubing are key components in biopharmaceutical and medical processes, mainly used for high-temperature steam sterilization, disposable reactors, cell culture, chromatography & filtration, peristaltic pump tubing, sampling, and filling. Each box of MedFlex® SIL050 products sold is produced and packaged in a 10K class level clean room environment of ISO10993 & ISO13485 quality systems controls, comprehensive batch control is implemented from raw material receipt to finished products delivery.

Material properties

Main properties	Material testing methods	Value
Hardness Value (SHA)	D2240	53
Tensile strength, PSI (MPa)	D412	1050 (7)
Ultimate elongation, %	D412	500
Gravity	D792	1.14
Tear strength, lb-f/in (kN/m)	D624	145(22)
Color	-	translucent

Key Properties:

- Designed for bioprocessing.
- Excellent flexible & bending radius.
- Manufactured in 10K Class clean room.
- Products Extractable controlling.
- Excellent peristaltic pump life 150Hrs @600PRM speed.

Typical Applications:

- Long life pump tubing
- Liquid transferring
- Steam sterilization
- Biomedical
- Cell culture

Regulations:

- Rohs & Reach
- FDA 21 CFR 177.2600
- USP 85,87& 88
- BPOG- E&L

Sterilization method

- Steam sterilization 134°C@60 mins
- Electron irradiation 25 to 50 kGy
- ETO



MedFlex® SIL050 Items Size List

Part No.	I.D. /inch	I.D. /mm	O.D./inch	O.D./mm	Wall/inch	Wall/mm	Length/meter	Metric NO.
ASC-0031-0094	1/32	0.79	3/32	2.38	1/32	0.79	15 & 30	
ASC-0063-0125	1/16	1.59	1/8	3.18	1/32	0.79	15 & 30	
ASC-0063-0188	1/16	1.59	3/16	4.76	1/16	1.59	15 & 30	14#
ASC-0094-0156	3/32	2.38	5/32	3.97	1/32	0.79	15 & 30	
ASC-0094-0219	3/32	2.38	7/32	5.56	1/16	1.59	15 & 30	
ASC-0125-0188	1/8	3.18	3/16	4.76	1/32	0.79	15 & 30	
ASC-0125-0250	1/8	3.18	1/4	6.35	1/16	1.59	15 & 30	16#
ASC-0125-0375	1/8	3.18	3/8	9.53	1/8	3.18	15 & 30	
ASC-0156-0219	5/32	3.97	7/32	5.56	1/32	0.79	15 & 30	
ASC-0188-0250	3/16	4.76	1/4	6.35	1/32	0.79	15 & 30	
ASC-0188-0313	3/16	4.76	5/16	7.94	1/16	1.59	15 & 30	25#
ASC-0188-0375	3/16	4.76	3/8	9.53	3/32	2.38	15 & 30	15#
ASC-0188-0438	3/16	4.76	7/16	11.11	1/8	3.18	15 & 30	
ASC-0250-0313	1/4	6.35	5/16	7.94	1/32	0.79	15 & 30	
ASC-0250-0375	1/4	6.35	3/8	9.53	1/16	1.59	15 & 30	17#
ASC-0250-0438	1/4	6.35	7/16	11.11	3/32	2.38	15 & 30	24#
ASC-0250-0500	1/4	6.35	1/2	12.70	1/8	3.18	15 & 30	26#
ASC-0313-0438	5/16	7.94	7/16	11.11	1/16	1.59	15 & 30	18#
ASC-0313-0500	5/16	7.94	1/2	12.70	3/32	2.38	15 & 30	35#
ASC-0375-0500	3/8	9.53	1/2	12.70	1/16	1.59	15 & 30	
ASC-0375-0563	3/8	9.53	9/16	14.29	3/32	2.38	15 & 30	36#
ASC-0375-0625	3/8	9.53	5/8	15.88	1/8	3.18	15 & 30	73#
ASC-0438-0563	7/16	11.11	9/16	14.29	1/16	1.59	15 & 30	
ASC-0438-0625	7/16	11.11	5/8	15.88	3/32	2.38	15 & 30	
ASC-0500-0625	1/2	12.70	5/8	15.88	1/16	1.59	15	
ASC-0500-0688	1/2	12.70	11/16	17.46	3/32	2.38	15	
ASC-0500-0750	1/2	12.70	3/4	19.05	1/8	3.18	15	82#
ASC-0625-0813	5/8	15.88	13/16	20.64	3/32	2.38	15	
ASC-0625-0875	5/8	15.88	7/8	22.23	1/8	3.18	15	
ASC-0750-1000	3/4	19.05	1	25.40	1/8	3.18	15	
ASC-1000-1125	1	25.40	1 1/8	28.58	1/16	1.59	15	

Note: For other customized sizes, please inquire by phone.



NOTE: This document is intended to provide information about the product and possible applications, this document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Medloop cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application. MedFlex® is a trademark of Shanghai Medloop Material Technology Co, Ltd