



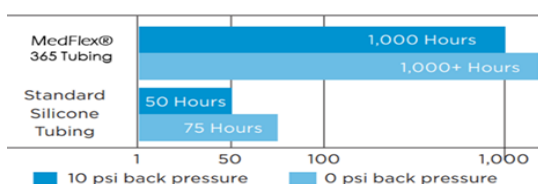
MedFlex® 365 TPV

Biopharmaceutical TPV long life pump tubing

Characteristic Description

MedFlex® 365 TPV thermoplastic long life peristaltic pump tubing is specifically developed for various critical fluid applications in biomed industry, the inner diameter and wall thickness of hose are precisely controlled during the extrusion. It is produced & packaged in a 10K class level clean room environment, Its excellent peristaltic pump performance and super long pump life are accepted biopharmaceutical practitioners.

Peristaltic pump tubing is a key component in biopharmaceutical industry, mainly used for liquid transferring, sampling, dispensing & filling. MedFlex® 365 TPV biopharmaceutical grade pump tubing has better chemical resistance, lower gas permeability & better service life compared to silicone tubing.



Pump testing: size tubing 1/4"x3/8" run continuously at 600 rpm to failure with zero back pressure and water as a medium.

Material properties

Main properties	Material testing methods	Value
Hardness Value (SHA)	D2240	62
Tensile strength, PSI (MPa)	D412	1150 (8)
Ultimate elongation, %	D412	700
Gravity	D792	1.12
Tear strength, lb-f/in (kN/m)	D624	145 (25)
Color	-	Nature (yellow)

Key Properties:

- Withstands repeated CIP and SIP cleaning and sterilization
- Long peristaltic pump life up to 1000hrs
- Excellent flexible & bending radius
- Formula Materials ADCF free
- Manufactured in 10K class clean room
- Temperature resistant from -50°C to 135°C

Typical Applications:

- Fluid transfer & processing
- Filtration and fermentation
- Peristaltic pumping
- Cell harvest and media process
- Biopharmaceutical
- Bioreactor process lines

Regulations:

- Rohs & Reach
- FDA 21 CFR 177.2600
- USP Class VI

Sterilization method:

- Steam sterilization 121°C@30 mins
- Electron irradiation 25 to 45 kGy
- ETO



MedFlex® 365 TPE 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.
AYL-0031-0094	1/32	0.79	3/32	2.38	1/32	0.79	15 & 30	
AYL-0063-0125	1/16	1.59	1/8	3.18	1/32	0.79	15 & 30	
AYL-0063-0188	1/16	1.59	3/16	4.76	1/16	1.59	15 & 30	14#
AYL-0094-0156	3/32	2.38	5/32	3.97	1/32	0.79	15 & 30	
AYL-0094-0219	3/32	2.38	7/32	5.56	1/16	1.59	15 & 30	
AYL-0125-0188	1/8	3.18	3/16	4.76	1/32	0.79	15 & 30	
AYL-0125-0250	1/8	3.18	1/4	6.35	1/16	1.59	15 & 30	16#
AYL-0125-0375	1/8	3.18	3/8	9.53	1/8	3.18	15 & 30	
AYL-0156-0219	5/32	3.97	7/32	5.56	1/32	0.79	15 & 30	
AYL-0188-0250	3/16	4.76	1/4	6.35	1/32	0.79	15 & 30	
AYL-0188-0313	3/16	4.76	5/16	7.94	1/16	1.59	15 & 30	25#
AYL-0188-0375	3/16	4.76	3/8	9.53	3/32	2.38	15 & 30	15#
AYL-0188-0438	3/16	4.76	7/16	11.11	1/8	3.18	15 & 30	
AYL-0250-0313	1/4	6.35	5/16	7.94	1/32	0.79	15 & 30	
AYL-0250-0375	1/4	6.35	3/8	9.53	1/16	1.59	15 & 30	17#
AYL-0250-0438	1/4	6.35	7/16	11.11	3/32	2.38	15 & 30	24#
AYL-0250-0500	1/4	6.35	1/2	12.70	1/8	3.18	15 & 30	26#
AYL-0313-0438	5/16	7.94	7/16	11.11	1/16	1.59	15 & 30	18#
AYL-0313-0500	5/16	7.94	1/2	12.70	3/32	2.38	15 & 30	35#
AYL-0375-0500	3/8	9.53	1/2	12.70	1/16	1.59	15 & 30	
AYL-0375-0563	3/8	9.53	9/16	14.29	3/32	2.38	15 & 30	36#
AYL-0375-0625	3/8	9.53	5/8	15.88	1/8	3.18	15 & 30	73#
AYL-0438-0563	7/16	11.11	9/16	14.29	1/16	1.59	15 & 30	
AYL-0438-0625	7/16	11.11	5/8	15.88	3/32	2.38	15 & 30	
AYL-0500-0625	1/2	12.70	5/8	15.88	1/16	1.59	15	
AYL-0500-0688	1/2	12.70	11/16	17.46	3/32	2.38	15	
AYL-0500-0750	1/2	12.70	3/4	19.05	1/8	3.18	15	82#
AYL-0625-0813	5/8	15.88	13/16	20.64	3/32	2.38	15	
AYL-0625-0875	5/8	15.88	7/8	22.23	1/8	3.18	15	
AYL-0750-1000	3/4	19.05	1	25.40	1/8	3.18	15	
AYL-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