

## MedFlex® 360 TPE

### Biopharmaceutical grade TPE weldable tubing

#### Characteristic Description

MedFlex® TPE thermoplastic weldable tubing is specifically developed for various critical liquid applications in biopharmaceutical industry, Its excellent heat sealing performance and 360° full angle sterile welding performance are widely accepted by biopharmaceutical practitioners. The inner diameter and wall thickness of each inch of hose are precisely controlled during the extrusion production, and each box of MedFlex® TPE 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.

TPE thermoplastic weldable tubing is a key component for the application of disposable products in biopharmaceutical industry, mainly used for integrated systems of liquid storage bags, mixing bags, sampling, dispensing & fluid filling. MedFlex® TPE weldable tubing has excellent compatibility with C-flex & AdvantaFlex TPE weldable tubing, whether it is self-welding of the same brand product or cross-welding between different brands, its welding effect is extremely excellent.

#### Material properties

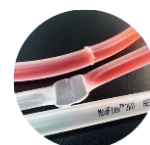
Main properties	Material testing methods	Value
Hardness Value (SHA)	D2240	62
Tensile strength, PSI (MPa)	D412	1150 (8)
Ultimate elongation, %	D412	800
Gravity	D792	0.90
Tear strength, lb-f/in (kN/m)	D624	145 (25)
Color	-	translucent

#### Key Properties:

- Compatible with common welding & sealing machines
- Excellent internal surface smoothness
- Excellent flexible & bending radius
- Materials ADCF free
- Tasteless, odorless
- Manufactured in 10K Class clean room

#### Typical Applications:

- Aseptic Sealing
- Aseptic Welding
- Sampling & Filling
- Peristaltic pump
- Biopharmaceutical
- Cell culture



#### Regulations:

- Rohs & Reach
- FDA 21 CFR 177.2600
- USP 85,87,88,381,643&661
- ISO10993-3, 5, 10 &11
- European Pharmacopeia 3.2.9
- BPOG- E&L

#### Sterilization method

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



**MedFlex® 360 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.
AES-0031-0094	1/32	0.79	3/32	2.38	1/32	0.79	15 & 30	
AES-0063-0125	1/16	1.59	1/8	3.18	1/32	0.79	15 & 30	
AES-0063-0188	1/16	1.59	3/16	4.76	1/16	1.59	15 & 30	14#
AES-0094-0156	3/32	2.38	5/32	3.97	1/32	0.79	15 & 30	
AES-0094-0219	3/32	2.38	7/32	5.56	1/16	1.59	15 & 30	
AES-0125-0188	1/8	3.18	3/16	4.76	1/32	0.79	15 & 30	
AES-0125-0250	1/8	3.18	1/4	6.35	1/16	1.59	15 & 30	16#
AES-0125-0375	1/8	3.18	3/8	9.53	1/8	3.18	15 & 30	
AES-0156-0219	5/32	3.97	7/32	5.56	1/32	0.79	15 & 30	
AES-0188-0250	3/16	4.76	1/4	6.35	1/32	0.79	15 & 30	
AES-0188-0313	3/16	4.76	5/16	7.94	1/16	1.59	15 & 30	25#
AES-0188-0375	3/16	4.76	3/8	9.53	3/32	2.38	15 & 30	15#
AES-0188-0438	3/16	4.76	7/16	11.11	1/8	3.18	15 & 30	
AES-0250-0313	1/4	6.35	5/16	7.94	1/32	0.79	15 & 30	
AES-0250-0375	1/4	6.35	3/8	9.53	1/16	1.59	15 & 30	17#
AES-0250-0438	1/4	6.35	7/16	11.11	3/32	2.38	15 & 30	24#
AES-0250-0500	1/4	6.35	1/2	12.70	1/8	3.18	15 & 30	26#
AES-0313-0438	5/16	7.94	7/16	11.11	1/16	1.59	15 & 30	18#
AES-0313-0500	5/16	7.94	1/2	12.70	3/32	2.38	15 & 30	35#
AES-0375-0500	3/8	9.53	1/2	12.70	1/16	1.59	15 & 30	
AES-0375-0563	3/8	9.53	9/16	14.29	3/32	2.38	15 & 30	36#
AES-0375-0625	3/8	9.53	5/8	15.88	1/8	3.18	15 & 30	73#
AES-0438-0563	7/16	11.11	9/16	14.29	1/16	1.59	15 & 30	
AES-0438-0625	7/16	11.11	5/8	15.88	3/32	2.38	15 & 30	
AES-0500-0625	1/2	12.70	5/8	15.88	1/16	1.59	15	
AES-0500-0688	1/2	12.70	11/16	17.46	3/32	2.38	15	
AES-0500-0750	1/2	12.70	3/4	19.05	1/8	3.18	15	82#
AES-0625-0813	5/8	15.88	13/16	20.64	3/32	2.38	15	
AES-0625-0875	5/8	15.88	7/8	22.23	1/8	3.18	15	
AES-0750-1000	3/4	19.05	1	25.40	1/8	3.18	15	
AES-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