

Watson-Marlow® PureWeld® XL High-Performance TPE Tubing

Made from high-purity thermoplastic elastomer (TPE), PureWeld® XL tubing provides long service life and consistent flow accuracy. The ultra-smooth bore supports precise ultrasonic flow measurement and is designed to minimize spallation for cleaner operation.



CERTIFICATION

FDA, USP <85>, <661>, and <788>, and USP Class VI

APPLICATIONS

- Perfect for peristaltic pumps, cell media, and single-use assemblies
- Ideal for general-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Ultra-smooth bore minimizes particle entrapment
- Fully weldable—complete fluid paths in minutes
- Wide temperature range of -20 to 80 °C (-4 to 176 °F)
- Flexible tubing with a 65 to 73 Shore A durometer
- Sterilize via gamma irradiation
- Double-packed in heat-sealed bags in Class 7 cleanroom
- Free technical application support available to assist with tubing selection

USA	+1.800.323.4340
	+1.847.549.7600
Canada	+1.800.363.5900
China	86.21.5109.9909
India	+1.800.266.1244

UK	+44 (0) 1480.272279
	+33 (0) 1.87.170142*
	+49 (0) 937.792030*
Italy	+39.02.84349215
All others	+1.847.549.7600

Technical Specifications

Specification	Description
Color	Colorless
Transparency	Opaque
Spallation	Very low
Certification and compliance	EC 1935/2004, FDA 21CFR177.1810, USP <661>, USP <788>, USP <85>, USP Class VI
Operating temperature	-20 to 80 °C (-4 to 176 °F)
Hardness, Shore A (5 sec)	65 to 73
Specific gravity	0.89 to 0.91 g/cm ³
UV resistance	Good
Tear B	>171 ppi (>30 kN/m)
Ultimate tensile strength	116 to 261 psi (8 to 18 MPa)
Elongation at break	>450%
Tensile stress at 100% elongation	348 to 507 psi (2.4 to 3.5 MPa)
Gas permeability rating	Low
Compression set	<80%
Water absorption	Low
Gamma stability	25 to 50 kGy

Specification and Ordering Table

Dimensions: in. (mm)			Item Number	Reel Length: ft (m)
Tubing ID	Tubing OD	Wall		
1/16" (1.6)	3/16" (4.8)	1/16" (1.6)	00756-03	50
1/16" (1.6)	1/4" (6.4)	3/32" (2.4)	00756-02	50
3/16" (4.8)	5/16" (8)	1/16" (1.6)	00756-04	50
3/16" (4.8)	3/8" (9.6)	3/32" (2.4)	00756-05	50
1/4" (6.4)	3/8" (9.6)	1/16" (1.6)	00756-06	50
1/4" (6.4)	7/16" (11)	3/32" (2.4)	00756-07	50
5/16" (8)	7/16" (11)	1/16" (1.6)	00756-08	50
5/16" (8)	1/2" (12.7)	3/32" (2.4)	00756-09	50
3/8" (9.6)	9/16" (14.3)	3/32" (2.4)	00756-10	50



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