

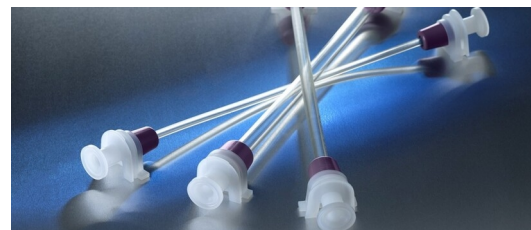
Maxthane

Maxthane tubing elements



Features and benefits

- High-performance pumping with reduced environmental impact
- Perfect for flavor, color and additive dosing in food manufacturing
- Food-grade compliance: FDA regulations 21 CFR177.1680, EC1935/2004, EU 10/2011



Performance

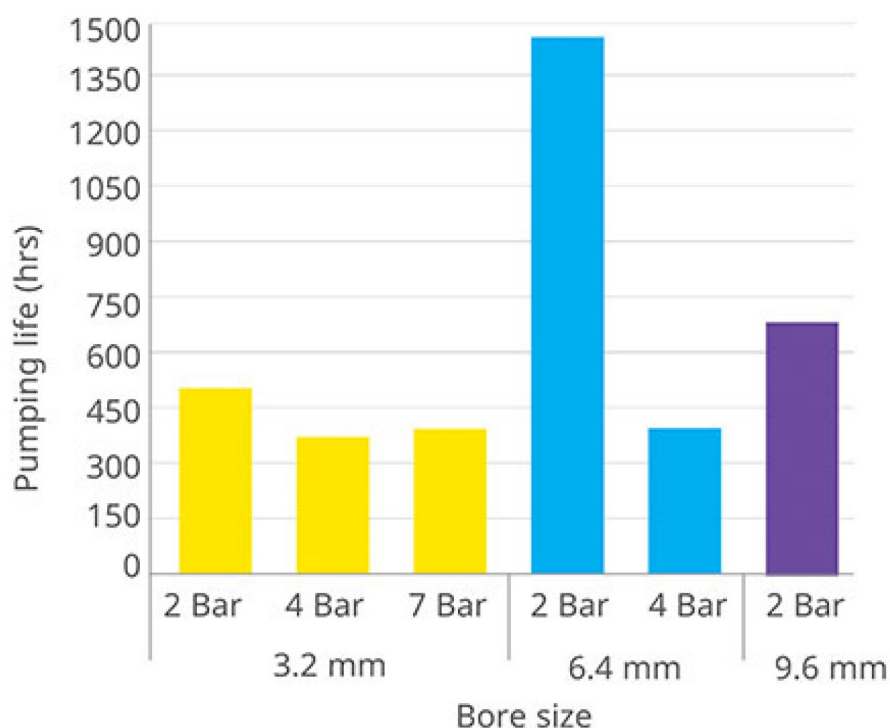
LoadSure® Elements		Maximum pumping pressure	
Bore mm	Bore inch	Bar	psi
3.2	1/8	7	100
6.4	1/4	4	60
9.6	3/8	2	30

Pumping life

The graphs show the pumping life of Maxthane® LoadSure® elements for all bore sizes.

Maxthane® LoadSure® Elements

Watson-Marlow 530 pump, 530RET rotor, 220 rpm CCW



Technical specifications

	Maxthane
Bore size	0.125 - 0.375 in (3.2 - 9.6 mm)
Wall thickness	0.0625 in (1.6 mm)
Colour	Colorless
Transparency	Transparent
Spallation	Very low
Certification and compliance	(EU) 10/2011, FDA 21CFR177.1680, Regulation (EC) No 1935/2004
Operating temperature	39 °F to 113 °F (4 °C to 45 °C)
Hardness, shore A (5sec)	87
Specific gravity	1.2 g/cm³
UV resistance	Good
Tear B	619,552 ppi (70 kN/m)
Tear B	4.8 kips/ft
Ultimate tensile strength	460 bar
Ultimate tensile strength	6672 psi (46 Mpa)
Elongation at break	600 %
Tensile stress at 100% elongation	725 psi (5 MPa)
Shelf life	5 years
Compatible pumps	530 cased pumps

<p>Test methods—Hardness: ASTM D 2240; Tear B: ISO 34-1B Tear nicked; Specific gravity: ISO 2781; Ultimate tensile strength, Elongation at break, Tensile stress at 100% elongation; ISO 527-2/5A/500; Vicat softening point: ISO 306 (A50); Abrasion resistance: ISO 4649-B. Values reported above are not intended for sales specification and some properties are not routinely measured.</p>
<p>May discolour to a darker shade of yellow with UV exposure.</p>
<p>For occasional use the maximum operating temperature is 65 °C (149 °F).</p>
<p>Do not steam sterilise articles made with thermoplastic polyurethanes—Methylene dianiline can be generated as a result.</p>
<p> </p>

Materials of construction

	Maxthane
Tubing	Thermoplastic polyurethane
Connector material	PVDF

Product codes

Maxthane peristaltic elements sizes available ¹

LoadSure® Elements		
Bore mm	Bore inch	Part number
3.2	1/8	945.0032.PFT
6.4	1/4	945.0064.PFT
9.6	3/8	945.0096.PFT
Pumpheads		
520RET Element Pumphead		053.1011.ET0

1-LoadSure® Elements require a 520RET pumphead.

Disclaimer: The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the users responsibility to ensure product suitability for use within their application. WatsonMarlow, Pumpsil, PureWeld XL, Bioprene, Maxthane, LoadSure and WMArchitect are registered trademarks of Watson-Marlow Limited. BioClamp, BioBarb, FlatBioEndCap, BioEndCap, BioValve and BioTube applicator are trademarks of BioPure Technology Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are trademarks of W.L. Gore and Associates.



wmfts.com/global
28 October 2025