

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

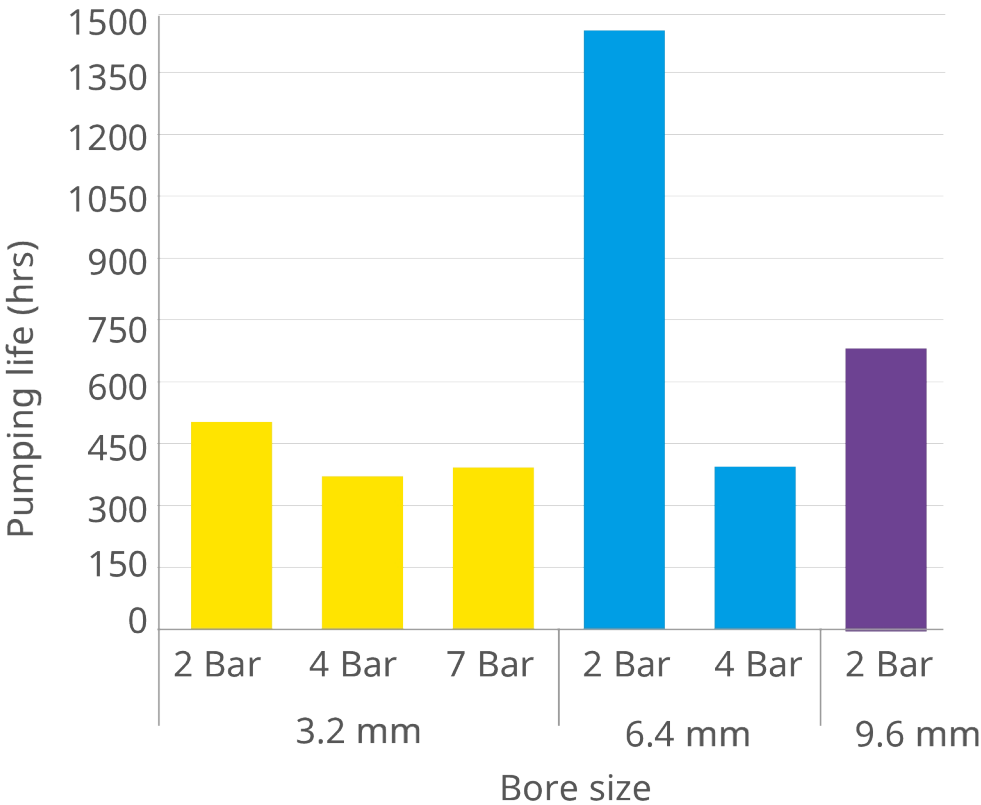
LoadSure® Elements		Maximum pumping pressure	
Bore mm	Bore inch	Bar	psi
3.2	1/8	7	100
6.4	1/4	4	60
9.6	3/8	2	30

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	3.2 - 9.6 mm
Bore size	0.125 - 0.375 in
Wall thickness	1.6 mm
Wall thickness	0.0625 in
Colour	Colorless
Transparency	Transparent
Spallation	Very low
Certification and compliance	(EU) 10/2011, FDA 21CFR177.1680, Regulation (EC) No 1935/2004
Operating temperature range	4 to 45 °C
Operating temperature range	39 to 113 °F
Hardness, shore A (5sec)	87
Specific gravity	1.2 g/cm³
UV resistance	Good
Tear B	70 kN/m
Tear B	619,552 ppi
Tear B	4.8 kips/ft
Ultimate tensile strength	460 bar
Ultimate tensile strength	6672 psi
Ultimate tensile strength	46 MPa
Elongation at break	600 %
Tensile stress at 100% elongation	5 Mpa
Tensile stress at 100% elongation	725 Psi
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 available¹

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.ETO

1-LoadSure® Elements require a 520RET pumphead.

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