

# Maxthane

Maxthane tubing elements

## Features and benefits

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



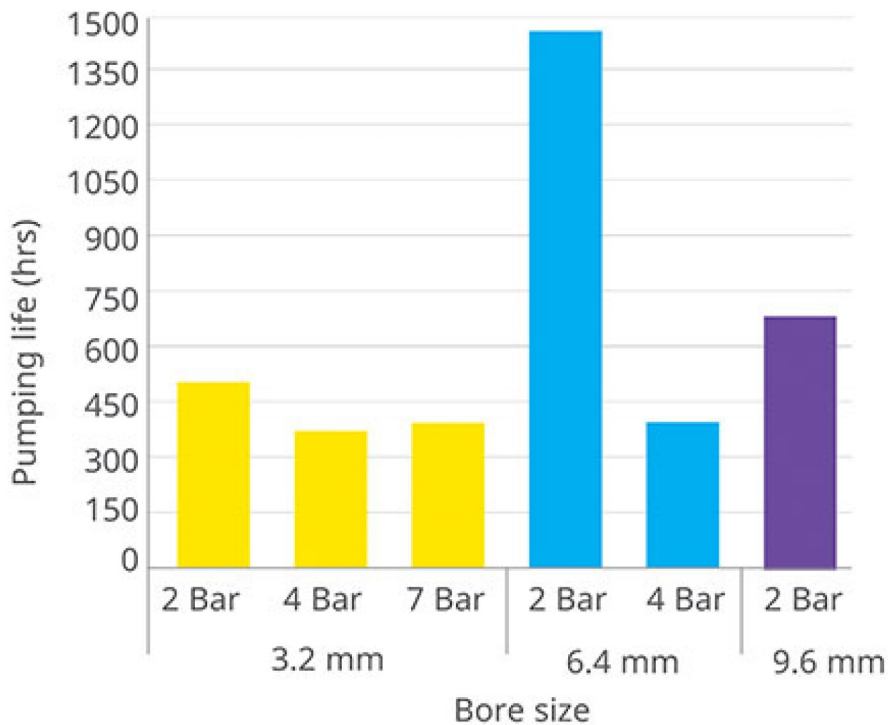
LoadSure® Elements		Maximum pumping pressure	
Bore mm	Bore inch	Bar	psi
3.2	1/8	7	100
6.4	1/4	4	60
9.6	3/8	2	30

## 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 (0.125 - 0.375 in)
Wall thickness	1.6 mm (0.0625 in)
Colour	Colourless
Transparency	Transparent
Spallation	Very low
Certification and compliance	EU Regulation 10/2011, FDA 21CFR177.1680, Regulation (EC) No 1935/2004
Operating temperature	4 °C to 45 °C (39 °F to 113 °F)
Hardness, shore A (5sec)	87
Specific gravity	1.2 g/cm <sup>3</sup>
UV resistance	Good
Tear B	70 kN/m (619,552 ppi)
Tear B	4.8 kips/ft
Ultimate tensile strength	460 bar
Ultimate tensile strength	46 Mpa (6672 psi)
Elongation at break	600 %
Tensile stress at 100% elongation	5 MPa (725 psi)
Shelf life	5 years
Compatible pumps	530 cased pumps

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.

May discolour to a darker shade of yellow with UV exposure.

For occasional use the maximum operating temperature is 65 °C (149 °F).

Do not steam sterilise articles made with thermoplastic polyurethanes—Methylene dianiline can be generated as a result.

## Materials of construction

	Maxthane
Tubing	Thermoplastic polyurethane
Connector material	PVDF

## Product codes

### Maxthane peristaltic elements sizes available <sup>1</sup>

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

<sup>1</sup>-LoadSure® Elements require a 520RET pumphead.

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