



**WATSON  
MARLOW**  
Tubing

## STYLE 400 TUBING

PTFE-reinforced Viton tubing

### Superb chemical resistance, long pumping life and excellent performance

GORE™ High Resilience Tubing Style 400 enables the benefits of peristaltic pumps to be introduced to a wider range of applications. Cost effective pumping is achieved with concentrated acids like sulphuric and nitric as well as aromatic hydrocarbons like toluene and xylene.

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#### Reliable pumping of aggressive media

Style 400 tubing offers superb reliability with tube life more than 50 times that of an extruded Viton or Fluorel tube.





# GORE™ High Resilience Tubing Style 400

## Unbeatable value for life

GORE™ High Resilience Tubing Style 400 is a unique composite of expanded PTFE (ePTFE) and Viton® fluoroelastomer (FKM) engineered specifically for Watson-Marlow peristaltic pumps and providing high performance pumping with superb chemical resistance and long service life.

The elastomer in this tubing is Viton® GF-600S a peroxide-cured fluoroelastomer based on DuPont's advanced polymer architecture. This is a high specification genuine Viton®. The tube of choice for reliability with aggressive media.

### The ideal tubing to save money in aggressive chemical metering or transfer applications

Resistant to:

- Strong concentrated acids such as nitric and sulphuric
- Aromatic hydrocarbons such as toluene and xylene
- Exceptional reliability with tube life 50 times that of extruded Viton or Fluorel
- Consistent flow rate due to excellent pumping stability
- Pumping up to 60psi (4 bar)

Bore		Wall		No	Element length	Part number
mm	inch	mm	inch		mm	
4.8	3/16	2.4	3/32	15	355	964.0048.024
6.4	1/4	2.4	3/32	24	355	964.0064.024
9.6	3/8	3.2	1/8	73	610	964.0096.032
12.7	1/2	4.8	3/16	38	610	964.0127.032

LoadSure elements				
Pump range	Bore	Pressure	Connections	Part number
520	6.4mm	up to 30psi (2 bar)	PVDF quick-release connectors	964.0064.PFQ
520	6.4mm	up to 60psi (4 bar)	PVDF quick-release connectors	964.P064.PFQ

## Widely used for a range of applications:

Customer uses Style 400 for solvent pumping in thread-locking application halving the cost of tubing used.

Brazilian customer in the nuclear industry pumps several hydrocarbons with Style 400. Longer tube life dramatically reduces maintenance.

Customer in Brazil was pumping a solvent based ink. Having tried several tube materials with no success they tried Style 400 and were amazed by the life.

A water treatment plant in the US pumps a hydrocarbon-based polymer with Style 400 reducing the cost of maintenance.

Style 400	Typical Values
Material	ePTFE and viton composite
Color/transparency	Off-white/opaque
Spallation	Excellent
Life/hours	313/314, 520R, 620R pumpheds/2000
Sterilization methods	Autoclave, CIP,SIP: ask Watson Marlow
Operating temperature	0C - 80C
Hardness, shore A (5 sec)	85 ±5
Specific gravity	1.94
Tear B, ppi	40B (21C)
Ultimate tensile strength psi	3190 (21C)
Elongation at break, %	450 (21C)
Tensile stress at 100% elongation, psi	982 (21C)
Compression set, %	13.1
Weather resistance	Excellent
Sunlight resistance	Excellent
Gas permeability O <sub>2</sub> ,cc, cm x 10 <sup>-9</sup> /cm <sup>2</sup> .sec.atm	1.1 (30C)
Water absorption	Good
Odor	Excellent

ASTM methods Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B, Ultimate tensile strength, Elongation at break, Tensile stress at 100% elongation; ASTM D 412

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