

MARPRENE® TUBING

Thermoplastic elastomer tubing

High chemical resistance to acids and alkalis

When long life matters

Marprene is Watson-Marlow's exclusive thermoplastic elastomer peristaltic pump tubing. It lasts at least 10 times as long as tubing in other materials. Long-life tubing means stoppages for a tube change are rare events, easily fitted in with general maintenance.

Always our first recommendation, Marprene has wide chemical compatibility, and is highly resistant to oxidising agents such as ozone, peroxides and sodium hypochlorite. Marprene is beige and opaque to visible and ultra-violet light, with low permeability to oxygen, carbon dioxide and nitrogen. It meets USDA standards for food handling.

Downtime is the enemy of productivity. Marprene peristaltic pump tubing leads the way where long life and chemical resistance are as vital as economy

- The tube of first choice
- Long-life, robust metering tube
- Wide chemical compatibility
- Comprehensive stock of a wide range of sizes
- Available in three Shore hardnesses
- Highly resistant to oxidising agents
- Highly resistant to acids
- Meets USDA standards for handling aqueous food
- Working temperature range 5C-80C

Watson-Marlow Marprene: the tubing to choose for long life and chemical resistance

When long life matters

Marprene offers exceptionally long life and resistance to a wide range of chemicals. It is a first choice for applications including metering tablet-coating materials, pH control and media feed in fermentation and bioreactor metering, as well as pharmaceutical handling, dispensing, metering, transfer and filtration.

General industrial long-life transfer tube. Highly resistant to oxidising agents such as ozone, peroxides and sodium hypochlorite.

Marprene	Typical values
Material	Thermoplastic elastomer
Colour / transparency	Beige / opaque
Spallation	Fair
Life, hours	313/314, 520R pumpheads: 10,000; 620R pumphead: 6,000. Contact Watson-Marlow for further details
Certification	FDA regulations 21 CFR 177.2600 for contact with aqueous food
Sterilisation methods	Gamma, autoclave, EtO, CIP, SIP: refer to Watson-Marlow for details
Operating temperature	5C-80C
Hardness, shore A (5 sec)	64 shore: 66; 73 shore: 74; 87 shore: 88
Specific gravity	64 shore: 0.97; 73 shore: 0.96; 87 shore: 0.95
Tear B, ppi	-
Ultimate tensile strength, psi	64 shore: 1007; 73 shore: 1410; 87 shore: 2263
Elongation at break, %	64 shore: 473; 73 shore: 510; 87 shore: 547
Tensile stress at 100% elongation, psi	64 shore: 367; 73 shore: 525; 87 shore: 987
Compression set, %	-
Weather resistance	Excellent
Sunlight resistance	Excellent
Gas permeability, O₂ cc.cm x 10⁻³ / cm².sec.atm	5.8
Gas permeability rating	Fair
Water absorption	Good
Odour	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

Bore	Wall	No	Coil size	Part number	Coil size	Part number	Coil size	Part number		
inch	mm									
1/50	0.5	1/16	1.6	112	50ft / 15m	902.0005.016	16ft / 5m	902.0005.J16	500ft / 152m	902.0005.R16
1/32	0.8	1/16	1.6	13		902.0008.016		902.0008.J16		902.0008.R16
1/16	1.6	1/16	1.6	14		902.0016.016		902.0016.J16		902.0016.R16
3/32	2.4	1/16	1.6			902.0024.016		902.0024.J16		902.0024.R16
1/8	3.2	1/16	1.6	16		902.0032.016		902.0032.J16		902.0032.R16
3/16	4.8	1/16	1.6	25		902.0048.016		902.0048.J16		902.0048.R16
1/4	6.4	1/16	1.6	17		902.0064.016		902.0064.J16		902.0064.R16
5/16	8.0	1/16	1.6	18		902.0080.016		902.0080.J16		902.0080.R16
1/8	3.2	3/32	2.4	119		902.0016.024		902.0016.J24		902.0016.R24
1/8	3.2	3/32	2.4	120		902.0032.024		902.0032.J24		902.0032.R24
3/16	4.8	3/32	2.4	15		902.0048.024		902.0048.J24	400ft / 122m	902.0048.R24
1/4	6.4	3/32	2.4	24		902.0064.024		902.0064.J24	300ft / 91m	902.0064.R24
5/16	8.0	3/32	2.4	121		902.0080.024		902.0080.J24	200ft / 61m	902.0080.R24
3/8	9.6	3/32	2.4	122		902.0096.024		902.0096.J24	150ft / 46m	902.0096.R24
1/4	6.4	1/8	3.2	26		902.0064.032		902.0064.I32	200ft / 61m	902.0064.R32
3/8	9.6	1/8	3.2	73		902.0096.032		902.0096.I32	150ft / 46m	902.0096.R32
1/2	12.7	1/8	3.2	82		902.0127.032		902.0127.I32		
5/8	15.9	1/8	3.2	184		902.0159.032		902.0159.I32		
-	8.0	-	4.0	185		902.0080.040		902.0080.I40		
-	12.0	-	4.0	186		902.0120.040		902.0120.I40		
-	16.0	-	4.0	187		902.0160.040		902.0160.I40		
3/8	9.6	3/16	4.8	193		902.0096.048		902.0096.I48		
1/2	12.7	3/16	4.8	88		902.0127.048		902.0127.I48		
5/8	15.9	3/16	4.8	189		902.0159.048		902.0159.I48		
3/4	19.0	3/16	4.8	191		902.0190.048		902.0190.I48		
1	25.4	3/16	4.8	92		902.0254.048		902.0254.I48		

Custom sizes are available to order, as are other specific requirements

Marprene for life

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Value for life

