

# Marprene elements

Marprene process tubing

## Features and benefits

- Wide chemical compatibility
- Opaque to UV and visible light
- Meets FDA 21CFR177.2600 for food contact NSF/ANSI 61
- Operating temperature 5 °C to 80 °C
- Available in thirty different bore sizes, five wall thicknesses and three coil lengths, including bulk reels which provide cost savings
- Also available as Elements



## Technical specifications

	Marprene elements
Bore size	0.25 - 25.4 mm
Bore size	0.0098 - 1 in
Wall thickness	0.8 - 4.8 mm
Wall thickness	0.09375 - 0.2 in
Length	0.45 - 15 m
Colour	Beige
Transparency	Opaque
Spallation	Fair
Certification	FDA 21CFR177.2600, NSF51 listed, NSF-61
Operating temperature range	5 °C to 80 °C
Operating temperature range	41 °F to 176 °F
Hardness, shore A (5sec)	62-68
Specific gravity	0.95-0.98 g/cm <sup>3</sup>
UV resistance	Excellent
Ultimate tensile strength	>798 psi
Ultimate tensile strength	>5.5 MPa
Elongation at break	340-600 %
Tensile stress at 100% elongation	1.9-3.0 Mpa
Gas permeability rating	Fair
Water absorption	Low
Shelf life	5 years

ASTM methods Hardness: ASTM D 2240; Specific Gravity ISO2781:2018; Ultimate Tensile strength, Elongation at Break, tensile stress at 100% elongation ISO 37:2017

## Materials of construction

	Marprene elements
Tubing	Thermoplastic elastomer
Connector material	PP, PVDF

## Product codes

Marprene Double Segment Kynar Y-Element ordering codes				
Bore		Wall Thickness		Product codes
mm	inch	mm	inch	
1.6	1/16	2.4	3/32	902.E016.K24
3.2	1/8	2.4	3/32	902.E032.K24
4.8	3/16	2.4	3/32	902.E048.K24
6.4	1/4	2.4	3/32	902.E064.K24
8.0	5/16	2.4	3/32	902.E080.K24
8.0	5/16	4.0	5/32	902.E080.K40
9.6	3/8	2.4	3/32	902.E096.K24
12.0	15/32	4.0	5/32	902.E120.K40
16.0	5/8	4.0	5/32	902.E160.K40

Marprene Double Segment Large Kynar Connector ordering codes				
Bore		Wall Thickness		Product codes
mm	inch	mm	inch	
1.6	1/16	2.4	3/32	902.EN16.K24
3.2	1/8	2.4	3/32	902.EN32.K24
4.8	3/16	2.4	3/32	902.EN48.K24

Marprene Loadsure Elements ordering codes	
Product Name	Product codes
Marprene 520 LoadSure TH 3.2mm Bore Quick Release Element	902.H032.PFQ
Marprene 520 LoadSure TL 3.2mm Bore Quick Release Element	902.0032.PFQ
Marprene 520 LoadSure TL 6.4mm Bore Quick Release Element	902.0064.PFQ
Marprene 520 LoadSure TL 9.6mm Bore Quick Release Element	902.0096.PFQ
Marprene 520 LoadSure TM 3.2mm Bore Quick Release Element	902.P032.PFQ
Marprene 520 LoadSure TM 6.4mm Bore Quick Release Element	902.P064.PFQ
Marprene 620 LoadSure TL 12.0mm Bore Cam and Groove Element	902.0170.PPC
Marprene 620 LoadSure TL 17.0mm Bore Cam and Groove Element	902.0170.PPC
Marprene 620 LoadSure TM 12.0mm Bore Cam and Groove Element	902.P120.PPC
Marprene 620 LoadSure TM 17.0mm Bore Cam and Groove Element	902.P170.PPC
Marprene 720 LoadSure 12.7mm Bore Cam and Groove Element	902.0127.PPC
Marprene 720 LoadSure 15.9mm Bore Cam and Groove Element	902.0159.PPC
Marprene 720 LoadSure 19.0mm Bore Cam and Groove Element	902.0190.PPC
Marprene 720 LoadSure 25.4mm Bore Cam and Groove Element	902.0254.PPC
Marprene 720 LoadSure TM 15.9mm Bore Element	902.P159.PPC

Small bore Manifold tubes ordering codes	
Product	Product codes
15M Marprene M'Fold Tube 0.25mm Bore Orange/Blue	905.0002.008
15M Marprene M'Fold Tube 0.38mm Bore Orange/Green	905.0003.008
15M Marprene M'Fold Tube 0.50mm Bore Orange/Yellow	905.0005.008
15M Marprene M'Fold Tube 0.63mm Bore Orange/White	905.0006.008
15M Marprene M'Fold Tube 0.76mm Bore Black/Black	905.0007.008
15M Marprene M'Fold Tube 0.88mm Bore Orange/Orange	905.0008.008
15M Marprene M'Fold Tube 1.02mm Bore White/White	905.0010.008
15M Marprene M'Fold Tube 1.14mm Bore Red/Red	905.0011.008
15M Marprene M'Fold Tube 1.29mm Bore Grey/Grey	905.0012.008
15M Marprene M'Fold Tube 1.42mm Bore Yellow/Yellow	905.0014.008
15M Marprene M'Fold Tube 1.52mm Bore Yellow/Blue	905.0015.008
15M Marprene M'Fold Tube 1.65mm Bore Blue/Blue	905.0016.008
15M Marprene M'Fold Tube 1.85mm Bore Green/Green	905.0018.008
15M Marprene M'Fold Tube 2.05mm Bore Purple/Purple	905.0020.008
15M Marprene M'Fold Tube 2.38mm Bore Purple/Black	905.0023.008
15M Marprene M'Fold Tube 2.54mm Bore Purple/Orange	905.0025.008
15M Marprene M'Fold Tube 2.79mm Bore Purple/White	905.0027.008

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