

# PureWeld XL weldable TPE tubing

PureWeld XL TPE Tubing

## Features and benefits

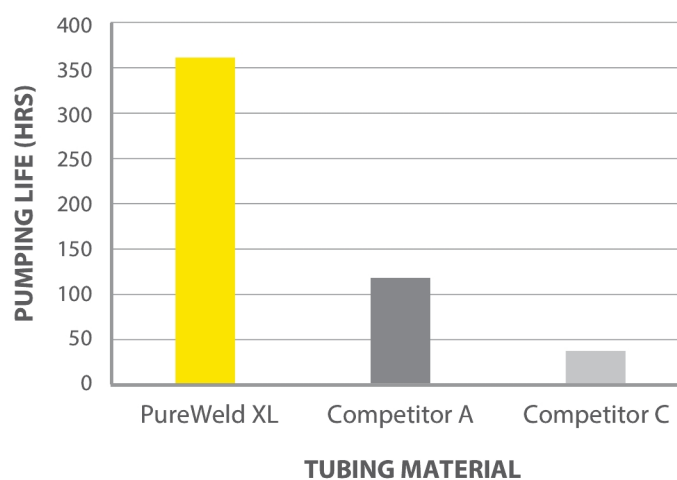
- Reduces inventory and minimises fluid contact materials
- Full compendial data to USP <788> for sub-visible particulates
- EP 2.6.14, USP<85> for bacterial endotoxins
- Suitable for sterilization by Gamma irradiation
- Animal-derived content free (ADCF)



## Performance

### Pumping life

Pumping life at 2 bar discharge pressure



## Technical specifications

|                                   | PureWeld XL weldable TPE tubing                                               |
|-----------------------------------|-------------------------------------------------------------------------------|
| Bore size                         | 0.5 - 25.4 mm                                                                 |
| Bore size                         | 0.02 - 1 in                                                                   |
| Wall thickness                    | 1.6 - 4.8 mm                                                                  |
| Wall thickness                    | 0.0625 - 0.1875 in                                                            |
| Length                            | 15 - 152 m                                                                    |
| Colour                            | Colorless                                                                     |
| Transparency                      | Opaque                                                                        |
| Spallation                        | Very low                                                                      |
| Certification                     | EC 1935/2004, FDA 21CFR177.1810, USP <661>, USP <788>, USP <85>, USP Class VI |
| Operating temperature range       | -20 to 80 °C                                                                  |
| Operating temperature range       | -4 to 176 °F                                                                  |
| Hardness, shore A (5sec)          | 65-73                                                                         |
| Specific gravity                  | 0.89-0.91 g/cm <sup>3</sup>                                                   |
| UV resistance                     | Good                                                                          |
| Tear B                            | >30 kN/m                                                                      |
| Tear B                            | >171 ppi                                                                      |
| Ultimate tensile strength         | 63-180 bar                                                                    |
| Ultimate tensile strength         | 116 - 261 psi                                                                 |
| Ultimate tensile strength         | 8 - 18 MPa                                                                    |
| Elongation at break               | >450 %                                                                        |
| Tensile stress at 100% elongation | 2.4-3.5 Mpa                                                                   |
| Tensile stress at 100% elongation | 348 - 507 Psi                                                                 |
| Gas permeability rating           | Low                                                                           |
| Compression set                   | <80 %                                                                         |
| Water absorption                  | Low                                                                           |
| Gamma stability                   | 25 to 50kGy                                                                   |
| Sterilisation methods             | Gamma                                                                         |

ISO Hardness: ISO 868; Specific gravity: ISO2781; Tear B, Ultimate tensile strength, Elongation at break, Tensile stress at 100 % elongation; ISO37-2005. Values reported above are not intended for sales specification and some of the properties are not routinely measured.

## Materials of construction

|        | PureWeld XL weldable TPE tubing |
|--------|---------------------------------|
| Tubing | SEBS                            |

Product codes

| PureWeld XL peristaltic pump tubing sizes available |       |      |      |              |
|-----------------------------------------------------|-------|------|------|--------------|
| Bore                                                |       | Wall |      | Part number  |
| mm                                                  | inch  | mm   | inch |              |
| 0.5                                                 | 1/50  | 1.6  | 1/16 | 942.0005.016 |
| 1.6                                                 | 1/16  | 1.6  | 1/16 | 942.0016.016 |
| 1.6                                                 | 1/16  | 2.4  | 3/32 | 942.0016.024 |
| 2.4                                                 | 3/32  | 1.6  | 1/16 | 942.0024.016 |
| 3.2                                                 | 1/8   | 1.6  | 1/16 | 942.0032.016 |
| 4.8                                                 | 3/16  | 1.6  | 1/16 | 942.0048.016 |
| 4.8                                                 | 3/16  | 2.4  | 3/32 | 942.0048.024 |
| 6.4                                                 | 1/4   | 1.6  | 1/16 | 942.0064.016 |
| 6.4                                                 | 1/4   | 2.4  | 3/32 | 942.0064.024 |
| 8.0                                                 | 5/16  | 1.6  | 1/16 | 942.0080.016 |
| 8.0                                                 | 5/16  | 2.4  | 3/32 | 942.0080.024 |
| 9.6                                                 | 3/8   | 2.4  | 3/32 | 942.0096.024 |
| 9.6                                                 | 3/8   | 3.2  | 1/8  | 942.0096.032 |
| 9.6                                                 | 3/8   | 4.8  | 3/16 | 942.0096.048 |
| 12.0                                                | 15/32 | 4.0  | 5/32 | 942.0120.040 |
| 12.7                                                | 1/2   | 3.2  | 1/8  | 942.0127.032 |
| 12.7                                                | 1/2   | 4.8  | 3/16 | 942.0127.048 |
| 15.9                                                | 5/8   | 3.2  | 1/8  | 942.0159.032 |
| 15.9                                                | 5/8   | 4.8  | 3/16 | 942.0159.048 |
| 19.0                                                | 3/4   | 4.8  | 3/16 | 942.0190.048 |
| 25.4                                                | 1     | 4.8  | 3/16 | 942.0254.048 |

All sizes of PureWeld XL tubing are available in 50ft (15m) coils. Custom sizes are available to order, as are other specific requirements.

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