

# PU Tubing



The PU tubing is available in 3 grades of ether, ester and crystal ether. Flexible with a small bend radius, it saves 50% of space for networks, compared to the semi-rigid PA.

Ø metric:  
3 to 16 mm

## Technical Characteristics

- **Compatible Fluids:** Compressed air, industrial fluids (depending on the material type)
- **Working Pressure:** Vacuum to 12 bar
- **Working Temperature:** -20°C to +70°C
- **Component Materials:**
  - Polyurethane ester (52 Shore D)
  - Polyurethane ether (52 Shore D)
  - Polyurethane ether food-grade "crystal" (52 Shore D)

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

## Regulations

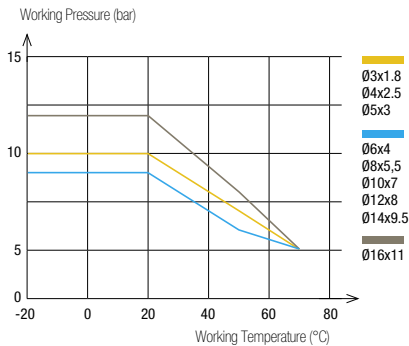
- |             |                                      |
|-------------|--------------------------------------|
| Industrial: | Food (PU ether food-grade "crystal") |
| • RoHS      | • FDA                                |
| • PED       | • 1935/2004                          |
| • REACH     |                                      |

## Advantages

### 3 material grades

- PU ester: standard pneumatic applications
- PU ether: suitable for hydrolysis; increased chemical resistance compared to PU ester
- PU ether crystal food grade: increased chemical resistance compared to PU ether
- Mechanical properties: flexible, small bending radius, vibration absorption, UV resistant

## Performance



To calculate burst pressure, the values in this graph should be multiplied by 3.

| Tube O.D.   | Tube O.D. Tolerance |
|-------------|---------------------|
| 3 to 8 mm   | +0.10 / -0.10       |
| 10 to 16 mm | +0.15 / -0.15       |

Connected to Parker Legris push-in fittings, the calibration of PU tubing ensures perfect sealing based on NF E49-101.

### Packaging

Tubepack®: 25 m, 100 m  
Drum: 300 m, 500 m, 1 000 m

## 1025U Polyurethane (PU) Ester Tubing

Tubepack® 25 m

| ØD ext. | ØD int. | R  |               |               |               |               |            |            | Kg    |
|---------|---------|----|---------------|---------------|---------------|---------------|------------|------------|-------|
| 3       | 1.8     | 8  | 1025U03 01 18 |               |               |               |            |            | 0.131 |
| 4       | 2.5     | 10 | 1025U04 01    | 1025U04 02    | 1025U04 03    | 1025U04 04    | 1025U04 05 | 1025U04 06 | 0.310 |
| 5       | 3       | 13 | 1025U05 01    |               |               | 1025U05 04    |            |            | 0.522 |
| 6       | 4       | 15 | 1025U06 01    | 1025U06 02    | 1025U06 03    | 1025U06 04    | 1025U06 05 | 1025U06 06 | 0.591 |
| 8       | 5.5     | 20 | 1025U08 01    | 1025U08 02    | 1025U08 03    | 1025U08 04    | 1025U08 05 | 1025U08 06 | 0.971 |
| 10      | 7       | 35 | 1025U10 01    | 1025U10 02    |               | 1025U10 04    | 1025U10 05 | 1025U10 06 | 1.210 |
| 12      | 8       | 35 | 1025U12 01    | 1025U12 02    |               | 1025U12 04    | 1025U12 05 | 1025U12 06 | 2.406 |
| 14      | 9.5     | 45 | 1025U14 01 95 |               |               | 1025U14 04 95 |            |            | 2.815 |
| 16      | 11      | 45 | 1025U16 01 11 | 1025U16 02 11 | 1025U16 03 11 | 1025U16 04 11 |            |            | 2.815 |

Inch tubing available upon request

## 1100U Polyurethane (PU) Ester Tubing

Tubepack® 100 m

| ØD ext. | ØD int. | R  |               |            |            |               |            |            | Kg     |
|---------|---------|----|---------------|------------|------------|---------------|------------|------------|--------|
| 4       | 2.5     | 10 | 1100U04 01    | 1100U04 02 | 1100U04 03 | 1100U04 04    | 1100U04 05 | 1100U04 06 | 1.092  |
| 5       | 3       | 13 | 1100U05 01    |            |            | 1100U05 04    |            |            | 1.092  |
| 6       | 4       | 15 | 1100U06 01    | 1100U06 02 | 1100U06 03 | 1100U06 04    | 1100U06 05 | 1100U06 06 | 2.064  |
| 8       | 5.5     | 20 | 1100U08 01    | 1100U08 02 | 1100U08 03 | 1100U08 04    | 1100U08 05 | 1100U08 06 | 3.200  |
| 10      | 7       | 35 | 1100U10 01    |            |            | 1100U10 04    |            |            | 5.200  |
| 12      | 8       | 35 | 1100U12 01    |            |            | 1100U12 04    |            |            | 7.464  |
| 14      | 9.5     | 45 | 1100U14 01 95 |            |            | 1100U14 04 95 |            |            | 10.264 |
| 16      | 11      | 45 | 1100U16 01 11 |            |            | 1100U16 04 11 |            |            | 12.676 |

Inch tubing available upon request

## 2003U Polyurethane (PU) Ester Tubing

Drum 300 m

| ØD ext. | ØD int. |  |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|---|--------|
| 10      | 7       | 35  | 2003U10 01  | 2003U10 03  | 2003U10 04  | 2003U10 06  | 16.600 |








## 2005U Polyurethane (PU) Ester Tubing

Drum 500 m

| ØD ext. | ØD int. |  |  |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|---|---|--------|
| 8       | 5.5     | 20  | 2005U08 01  | 2005U08 02  | 2005U08 03  | 2005U08 04  | 2005U08 05  | 17.100 |









## 2010U Polyurethane (PU) Ester Tubing

Drum 1000 m

| ØD ext. | ØD int. |  |  |  |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|---|---|---|--------|
| 4       | 2.5     | 12  | 2010U04 01  | 2010U04 02  | 2010U04 03  | 2010U04 04  | 2010U04 05  | 2010U04 06  | 9.840  |
| 6       | 4       | 15  | 2010U06 01  | 2010U06 02  | 2010U06 03  | 2010U06 04  | 2010U06 05  | 2010U06 06  | 20.460 |









## 1025U..R Polyurethane (PU) Ether Tubing

Tubepack® 25 m

| ØD ext. | ØD int. |  |  |  |  |  |  |  |  | Kg    |
|---------|---------|---|---|---|---|---|--|---|---|-------|
| 4       | 2.5     | 12  | 1025U04R01  | 1025U04R04  | 1025U04R08  | 1025U04R12  | 1025U04R13   | 1025U04R14  | 1025U04R17  | 0.310 |
| 5       | 3       | 13  |   |   | 1025U05R08  |   |  |   |   | 0.522 |
| 6       | 4       | 15  | 1025U06R01  | 1025U06R04  | 1025U06R08  | 1025U06R12  | 1025U06R13   | 1025U06R14  | 1025U06R17  | 0.591 |
| 8       | 5.5     | 20  | 1025U08R01  | 1025U08R04  | 1025U08R08  | 1025U08R12  | 1025U08R13   | 1025U08R14  | 1025U08R17  | 0.971 |
| 10      | 7       | 25  | 1025U10R01  | 1025U10R04  | 1025U10R08  |   |  | 1025U10R14  |   | 1.467 |
| 12      | 8       | 35  | 1025U12R01  | 1025U12R04  | 1025U12R08  |   |  | 1025U12R14  |   | 2.406 |
| 14      | 9.5     | 45  |   | 1025U14R04 95   |   |   |  |   |   | 2.421 |
| 16      | 11      | 45  |   |   | 1025U16R08 11   |   |  |   |   | 2.815 |

## 1100U ..R Polyurethane (PU) Ether Tubing

Tubepack® 100 m

| ØD ext. | ØD int. |  |  |  |  |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|---|--|---|---|--------|
| 4       | 2.5     | 12  | 1100U04R01  | 1100U04R04  | 1100U04R08  | 1100U04R12  | 1100U04R13   | 1100U04R14  | 1100U04R17  | 1.092  |
| 6       | 4       | 15  | 1100U06R01  | 1100U06R04  | 1100U06R08  | 1100U06R12  | 1100U06R13   | 1100U06R14  | 1100U06R17  | 2.064  |
| 8       | 5.5     | 20  | 1100U08R01  | 1100U08R04  | 1100U08R08  | 1100U08R12  | 1100U08R13   | 1100U08R14  | 1100U08R17  | 3.610  |
| 10      | 7       | 25  |   |   | 1100U10R08  |   |  | 1100U10R14  |   | 6.109  |
| 12      | 8       | 35  |   | 1100U12R04  | 1100U12R08  |   |  |   |   | 8.610  |
| 14      | 9.5     | 45  |   |   | 1100U14R08 95   |   |  |   |   | 10.000 |
| 16      | 11      | 45  |   |   | 1100U16R08 11   |   |  |   |   | 12.176 |

## 2003U..R Polyurethane (PU) Ether Tubing

Drum 300 m

| ØD ext. | ØD int. |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|--------|
| 10      | 7       | 25  | 2003U10R01  | 2003U10R04  | 2003U10R08  | 16.600 |

## 2005U..R Polyurethane (PU) Ether Tubing

Drum 500 m

| ØD ext. | ØD int. |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|--------|
| 8       | 5.5     | 20  | 2005U08R01  | 2005U08R04  | 2005U08R08  | 15.600 |

## 2010U..R Polyurethane (PU) Ether Tubing

Drum 1000 m

| ØD ext. | ØD int. |  |  |  |  | Kg     |
|---------|---------|---|---|---|---|--------|
| 4       | 2.5     | 12  |   |   | 2010U04R08  | 8.868  |
| 6       | 4       | 15  | 2010U06R01  | 2010U06R04  | 2010U06R08  | 18.600 |

# Antistatic PU Tubing



The antistatic PU tubing guarantees the dissipation of accumulated static electricity.

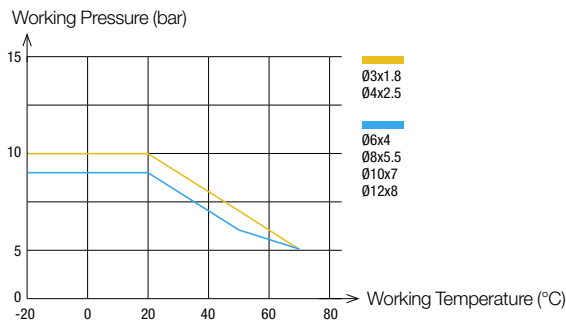
Ø metric:  
3 to 12 mm

## Technical Characteristics

- **Compatible Fluids:** Compressed air, industrial fluids
- **Working Pressure:** Vacuum to 10 bar
- **Working Temperature:** -20°C to +70°C
- **Component Materials:** Polyurethane with conductive additive (50 shore D)

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

## Performance



To calculate burst pressure, the values in this graph should be multiplied by 3.

## Advantages

- Constant 10<sup>2</sup>Ω.cm resistivity over the wall thickness
- Good chemical resistance, UV resistance
- Minimum bending radius: maximum space saving
- ATEX zone compatibility: please contact us

## Regulations

- ATEX (please consult us)
- RoHS
- REACH

| Tube O.D.   | Tube O.D. Tolerance |
|-------------|---------------------|
| 3 to 8 mm   | +0.10 / -0.10       |
| 10 to 12 mm | +0.15 / -0.15       |

**Packaging**  
Tubepack®: 100 m

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-101.

## 1100U..A Anti-Static Polyurethane (PU) Ester Tubing

Tubepack® 100 m

| ØD ext. | ØD int. |    |            | Kg    |
|---------|---------|----|------------|-------|
| 3       | 1.8     | 10 | 1100U03A01 | 0.836 |
| 4       | 2.5     | 12 | 1100U04A01 | 1.092 |
| 6       | 4       | 15 | 1100U06A01 | 2.064 |
| 8       | 5.5     | 25 | 1100U08A01 | 3.610 |
| 10      | 7       | 35 | 1100U10A01 | 6.105 |
| 12      | 8       | 45 | 1100U12A01 | 8.610 |

## Related Products

To maintain the antistatic properties throughout the circuit, it is recommended that this tubing be used with metallic fittings.

### Push-In Fittings

LF 3600



LF 3800



### Compression Fittings

Brass



Stainless Steel



# Anti-Spark PU Tubing



The anti-spark PU tubing is available in 2 versions, mainly for welding applications : PU ether single layer or PVC coated, spark resistant, without compromising flexibility.

Ø metric:  
6 to 12 mm

## Technical Characteristics

- **Compatible Fluids:** Industrial fluids, compressed air, coolants
- **Working Pressure:** Vacuum to 14 bar
- **Working Temperature:** -20°C to +70°C
- **Component Materials:** PU ether with PVC sheath  
PU ether single layer additive (50 shore D)

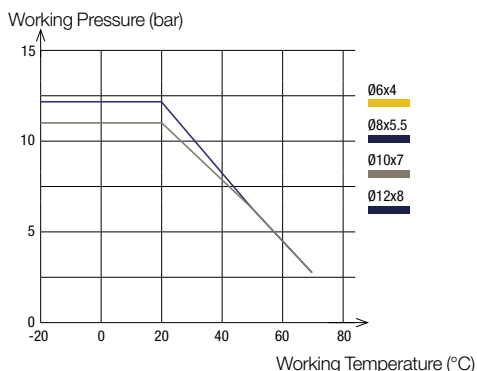
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

## Performance

| Tube O.D.   | Tube O.D. Tolerance | Thickness and Tolerances of PVC Sheath |
|-------------|---------------------|--|
| 6 to 8 mm   | +0.10/-0.10         | 1mm<br>+0.10/-0.10                     |
| 10 to 12 mm | +0.15/-0.15         |  |

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-101 (inner tubing for sheathed or single layer tubing).

### Anti-Spark PU Tubing, with PVC Sheath



To calculate burst pressure, the values in these graphs should be multiplied by 3.

## Advantages

### Single-layer PU:

- Flexible for an optimized bending radius
- Flexible for a long service life at high speeds

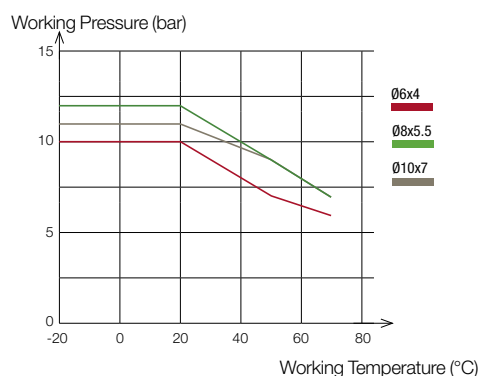
### PVC coated PU:

- Self-extinguishing PVC sheath to protect the inner tube
- Resistant to torsion, crushing

## Regulations

- UL94 (fire resistance)
- RoHS
- REACH

### Anti-Spark PU Tubing, Single Layer



## 1025U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing

Tubepack® 25 m

| ØD ext. | ØD int. | CR |            |            |            |            | Kg    |
|---------|---------|----|------------|------------|------------|------------|-------|
| 6       | 4       | 12 | 1025U06V01 |            | 1025U06V03 | 1025U06V04 | 1.200 |
| 8       | 5.5     | 20 | 1025U08V01 |            | 1025U08V03 | 1025U08V04 | 1.620 |
| 10      | 7       | 25 | 1025U10V01 |            | 1025U10V03 | 1025U10V04 | 2.900 |
| 12      | 8       | 35 | 1025U12V01 | 1025U12V02 | 1025U12V03 |            | 4.030 |






## 1100U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing

Tubepack® 100 m

| ØD ext. | ØD int. | CR |            |            | Kg     |
|---------|---------|----|------------|------------|--------|
| 6       | 4       | 12 | 1100U06V01 |            | 5.370  |
| 8       | 5.5     | 20 | 1100U08V01 | 1100U08V02 | 7.626  |
| 10      | 7       | 25 | 1100U10V01 |            | 10.864 |






## 1025U..K Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 25 m

| ØD ext. | ØD int. |  |  |  |  |  | Kg    |
|---------|---------|---|---|---|--|---|-------|
| 6       | 4       | 15  | 1025U06K01  | 1025U06K02  | 1025U06K03   | 1025U06K04  | 0.580 |
| 8       | 5.5     | 20  | 1025U08K01  | 1025U08K02  | 1025U08K03   | 1025U08K04  | 0.860 |
| 10      | 7       | 25  | 1025U10K01  | 1025U10K02  | 1025U10K03   | 1025U10K04  | 1.230 |

## 1100U..K Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 100 m

| ØD ext. | ØD int. |  |  |  |  |  | Kg    |
|---------|---------|---|---|---|--|---|-------|
| 6       | 4       | 15  | 1100U06K01  | 1100U06K02  | 1100U06K03   | 1100U06K04  | 2.320 |
| 8       | 5.5     | 20  | 1100U08K01  | 1100U08K02  | 1100U08K03   |   | 3.030 |
| 10      | 7       | 25  | 1100U10K01  | 1100U10K02  | 1100U10K03   | 1100U10K04  | 5.100 |

## 6000 71 00 Stripping Tool for Anti-Spark Tubing

Technical polymer, stainless steel



Kg

6000 71 00

0.098

### Working Principle

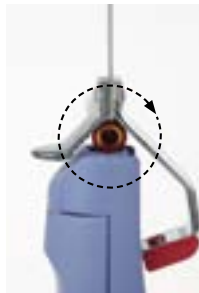
Stripping Tool 6000 71 00



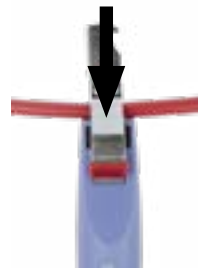
1. Place tube in stripping tool to adjust the blade height to the tube thickness.



2. Blade height is adjusted using the wheel at the bottom of the handle.



3. Once adjustments have been made, perform a 360° rotation around the tube with the tool.



4. Push down firmly on the metal part of the tool in order to hold tube properly.



5. Move the tool to the end of the tube to create an axial opening of the sheath.



6. The tube is correctly stripped.