PA Tubing

PA tube is available in 2 grades:
semi-rigid with a proven and durable offer thanks to its mechanical properties and rigid with better performance in terms of working pressure.

Ø metric:
3 to 16 mm

Technical Characteristics

Tubing	Semi-Rigid PA	Rigid PA
Compatible Fluids	Compressed air, other fluids	Compressed air, lubricants, other fluids
Working Pressure	Vacuum to 50 bar	Vacuum to 58 bar
Working Temperature	-40°C to +100°C	-40°C to +80°C
Component Materials	Polyamide (62 shore D)	Polyamide (69 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:
- **RoHS**
- **PED**
- **REACH**

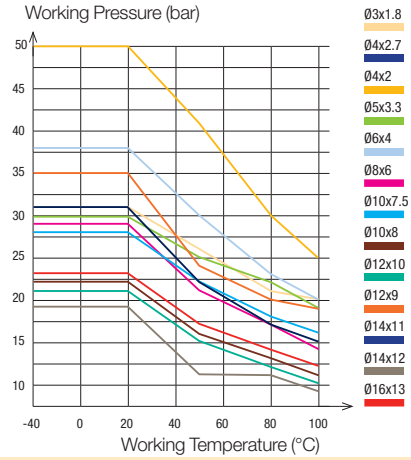
Transportation:
- **Chemical performance and resistance tested according to DIN 74324**

Advantages

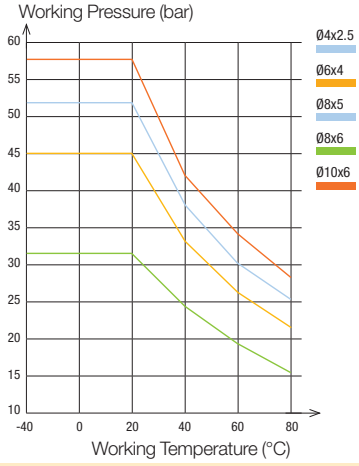
- Chemical stability
- Marking on the tube of the remaining length.
- Large color panel for circuit identification

Performance of PA Tubing

Semi-Rigid



Rigid



Tube O.D.	Tube O.D. Tolerance
3 to 5 mm	+0.05 / -0.08
6 to 16 mm	+0.05 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing in accordance with NF E49-100.

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

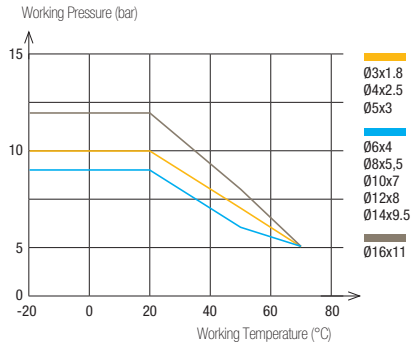
Industrial:
- **RoHS**
- **PED**
- **REACH**

Food (PU ether food-grade "crystal")
- **FDA**
- **1935/2004**

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

PE Tubing

The polyethylene tubing exists in 2 grades: low-density PE or "Advanced PE" 50% reticulated. Intended for food processing or fluid transmission applications, PE tubings are safe for users' health.

Ø metric:
4 to 16 mm

Technical Characteristics

Tube	Advanced PE	Low Density PE
Compatible Fluids	Water, beverages and other fluids	Industrial fluids
Working Pressure	Vacuum to 16 bar	Vacuum to 20 bar
Working Temperature	-40°C to +95°C	-40°C to +60°C
Component Materials	High quality polyethylene: 50% reticulated PE 50% low density PE (53 shore D)	Low Density Polyethylene (44 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

Advanced PE Tubing:
- **FDA: 21CFR 177.1520**
- **1935/2004**
- **NSF 42/58**
- **NSF 51**
- **NSF 61 C-HOT**
- **ACS**
- **WRAS**
- **KTW**
- **W270**
- **PED**
- **RoHS**
- **DM174**

Low Density PE Tubing:
- **FDA: 21CFR 177.1520**
- **RoHS**
- **PED**

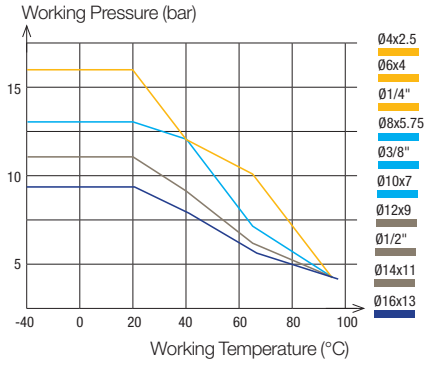
Advantages

Advanced PE
- Approved for contact with beverages and food products
- Resistant to a wide range of chemicals and cleaning products, stable, under UV
- Excellent compromise between bending radius and pressure/temperature resistance

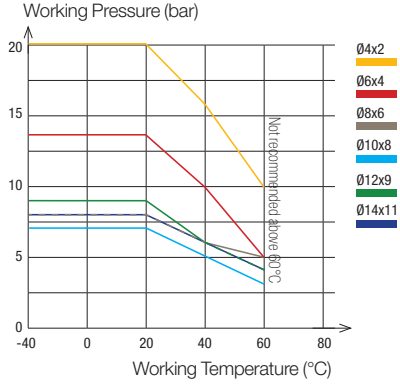
Low Density PE
- Food grade material
- Resistance to corrosive and aggressive agents

Performance

Advanced PE Tubing



Low Density PE Tubing



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

Tube O.D.	Tube O.D. Tolerance
1/4" to 1/2"	+0.10 / -0.10
4 to 16 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

Packaging

Advanced PE Tubing
Drum: 75 m, 150 m, 300 m, 250 feet, 500 feet

PE Tubing
Tubepack®: 100 m