

# Parker Product Datasheet



Polyurethane's 3 specific materials - ether, ester and food-grade 'crystal' - offer excellent flexibility and outstanding use in a wide range of applications, allowing for up to 50% space reduction when compared to semi-rigid PA tubing.

**PART NUMBER:** 1025U06R17

**TUBE I.D. (MM):** 4

**TUBE O.D. (MM):** 6

**LENGTH (M):** 25

**TUBING MATERIAL:** PUER

**COLOR:** ORANGE CRYSTAL

## PRODUCT OVERVIEW

Polyurethane's 3 specific materials - ether, ester and food-grade 'crystal' - offer excellent flexibility and outstanding use in a wide range of applications, allowing for up to 50% space reduction when compared to semi-rigid PA tubing.

### Features/Benefits:

#### - Excellent Mechanical Properties

- Consistent tensile strength for optimum longevity
- Optimal bend radius
- Good vibration absorption
- Unsurpassed abrasion resistance for a single layer tubing
- UV-resistant

- Superior vacuum capability due to surface hardness
- Remaining length marking
- Silicone-free

#### - 3 Material Grades

- PU ester: perfect for pneumatic applications
- PU ether: no water absorption; superior chemical resistance to PU ester
- PU ether food-grade 'crystal':

identification of fluids and circuits

chemical resistance superior to PU ether

improved longevity

#### Markets:

- Food and Beverage
- Miscellaneous Manufacturing
- Factory Automation
- Vehicle Assembly Facilities

#### Applications:

- Compressed Air and Industrial Fluids Conveying
- Standard Pneumatic Applications Requiring Rapid Cycles
- Applications Subjected to Water and High Humidity (PU ether)
- Suitable for Vacuum Applications

#### Technologies:

- PU Tubing
- Polyurethane Tubing
- Industrial Tubing

#### Technical Characteristics:

- Fluids: Compressed air, industrial fluids (depending on the material type)
- Materials: Polyurethane ester, Polyurethane ether, Polyurethane ether food-grade 'crystal'
- Pressure: Vacuum to 12 bar
- Temperature: -20°C to +70°C

## Regulations:

### Industrial

- DI: 2002/95/EC (RoHS), 2011/65/EC
- DI: 97/23/EC (PED)
- RG: 1907/2006 (REACH)

### Food (PU ether food-grade 'crystal')

- FDA: 21 CFR 177.2600, 178.3297, 176.170, 178.2010
- RG: 1935/2004 EC

## Product Types:

- Polyurethane Ester Tubing
- Polyurethane Ether Tubing

# TECH SPECIFICATIONS

## MAXIMUM OPERATING TEMPERATURE

70 °C

## APPLICATION

In-Plant Automotive

## DIVISION

Low Pressure Connectors Europe Division

## MEDIA

Air (Compressed Air)

## APPLICATION

Cabling

## VACUUM PRESSURE RATING

755 mm-Hg

## APPLICATION

Rapid Cycles

## MINIMUM OPERATING TEMPERATURE

-20 °C

## MAXIMUM OPERATING PRESSURE

12 bar

## WEIGHT

0.591 kg/package

## SPECIFICATIONS MET

FDA 21 CFR 177.2600, 178.3297, 176.170, 178.2010  
(Food - PU ether food-grade 'crystal')

## MEDIA

Industrial Fluids (depending on the material type)

## SPECIFICATIONS MET

RG: 1935/2004 EC (Food - PU ether food-grade 'crystal')

|                           |                                          |
|---------------------------|------------------------------------------|
| <b>SPECIFICATIONS MET</b> | PED 97/23/EC (Industrial)                |
| <b>NUMBER OF TUBES</b>    | 1                                        |
| <b>SPECIFICATIONS MET</b> | REACH 1907/2006 (Industrial)             |
| <b>APPLICATION</b>        | Food Processing                          |
| <b>APPLICATION</b>        | Robotics                                 |
| <b>SPECIFICATIONS MET</b> | RoHS 2002/95/EC, 2011/65/EC (Industrial) |
| <b>APPLICATION</b>        | Pneumatics                               |
| <b>APPLICATION</b>        | Automation                               |