

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: 1100U12 04

TUBING MATERIAL: PU

LENGTH (M): 100

TUBE I.D. (MM): 8

COLOR: BLUE

TUBE O.D. (MM): 12

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 PRESSURE	12 bar
WEIGHT	7.8 kg/package
VACUUM PRESSURE RATING	755 mm-Hg
MINIMUM OPERATING TEMPERATURE	-20 °C
APPLICATION	Automation
NUMBER OF TUBES	1
SPECIFICATIONS MET	FDA 21 CFR 177.2600, 178.3297, 176.170, 178.2010 (Food - PU ether food-grade 'crystal')
APPLICATION	Rapid Cycles
DIVISION	Low Pressure Connectors Europe Division
MAXIMUM OPERATING TEMPERATURE	70 °C
APPLICATION	Food Processing
APPLICATION	In-Plant Automotive
SPECIFICATIONS MET	RG: 1935/2004 EC (Food - PU ether food-grade 'crystal')

SPECIFICATIONS MET	REACH 1907/2006 (Industrial)
APPLICATION	Robotics
SPECIFICATIONS MET	RoHS 2002/95/EC, 2011/65/EC (Industrial)
MEDIA	Air (Compressed Air)
MEDIA	Industrial Fluids (depending on the material type)
APPLICATION	Pneumatics
SPECIFICATIONS MET	PED 97/23/EC (Industrial)
APPLICATION	Cabling