

# Parker Product Datasheet



Tried-and-tested for industrial or vehicle applications, PA tubing guarantees excellent durability due to its stable long-term mechanical properties.

Special grade of semi-rigid polyamide manufactured according to our Eco-Design approach.

**PART NUMBER:** 2005P10 01

**COLOR:** BLACK

**LENGTH (M):** 500

**TUBE I.D. (MM):** 8

**TUBING MATERIAL:** PA

**TUBE O.D. (MM):** 10

## PRODUCT OVERVIEW

Tried-and-tested for industrial or vehicle applications, PA tubing guarantees excellent durability due to its stable long-term mechanical properties.

Parker Legris' special grade of semi-rigid polyamide is manufactured according to our Eco-Design approach for higher performance.

Features/Benefits:

- Tried-&-Tested Material

- Good chemical and humidity resistance
- Excellent material stability (mechanical and chemical)
- Continuous calibration during production for excellent reliability
- Two material grades: rigid and semi-rigid
- Bio-based semi-rigid material

#### - Versatility & Performance

- Wide range of working pressure and temperature
- Good vibration absorption
- Abrasion-resistant
- Remaining length marking
- Large choice of colours to facilitate circuit identification
- Silicone-free

#### Markets:

- Factory Automation
- Miscellaneous Manufacturing
- Packaging
- Machine Tools
- Hydrogen

## Applications:

- Standard Pneumatic Machinery Equipment
- Low Pressure Compressed Air Conveying
- Suitable for Vacuum Applications
- Applications Subjected to Mechanical Stress (Rigid PA)
- Hydrogen
- Thermal Management

## Technologies:

- PA Tubing
- Polyamide Tubing
- Flexible Tubing
- Flexible Tube
- Semi Rigid Tubing
- Industrial Tubing

## Technical Characteristics:

### Fluids:

- Semi-Rigid PA: Compressed air, other fluids
- Rigid PA: Compressed air, lubricants, other fluids

### Materials:

- Semi-Rigid PA: Bio-based polyamide (68 shore D)

- Rigid PA: Polyamide (65 shore D)

Pressure:

- Semi-Rigid PA: Vacuum to 50 bar

- Rigid PA: Vacuum to 60 bar

Temperature:

- Semi-Rigid PA: -40°C to +100°C

- Rigid PA: -40°C to +80°C

Regulations:

Industrial

- DI: 2002/95/EC (RoHS), 2011/65/EC

- DI: 97/23/EC (PED)

- RG: 1907/2006 (REACH)

Transportation

- Chemical performance and resistance tested according to

DIN 74324 -1 / DIN 73378 / ISO 7628

Product Types:

- Semi-rigid PA Tubing

- Rigid PA Tubing

## TECH SPECIFICATIONS

|                                      |                                                                          |
|--------------------------------------|--------------------------------------------------------------------------|
| <b>MAXIMUM OPERATING TEMPERATURE</b> | up to 100 °C See the Graph “Working Pressure/Working Temperature”        |
| <b>DIVISION</b>                      | Low Pressure Connectors Europe Division                                  |
| <b>MAXIMUM OPERATING PRESSURE</b>    | 50 bar                                                                   |
| <b>MINIMUM OPERATING TEMPERATURE</b> | -40 °C                                                                   |
| <b>SPECIFICATIONS MET</b>            | REACH 1907/2006 (Industrial)                                             |
| <b>SPECIFICATIONS MET</b>            | ISO 7755 (for Chemical Performance and Resistance in Transportation)     |
| <b>SPECIFICATIONS MET</b>            | DIN 73378 (for Chemical Performance and Resistance in Transportation)    |
| <b>SPECIFICATIONS MET</b>            | RoHS 2002/95/EC, 2011/65/EC (Industrial)                                 |
| <b>SPECIFICATIONS MET</b>            | PED 97/23/EC (Industrial)                                                |
| <b>SPECIFICATIONS MET</b>            | DIN 74324 -1 (for Chemical Performance and Resistance in Transportation) |
| <b>MEDIA</b>                         | Air (Compressed Air: Rigid PA)                                           |
| <b>MEDIA</b>                         | Lubricants (Rigid PA)                                                    |
| <b>MEDIA</b>                         | Industrial Fluids (Rigid PA)                                             |
| <b>MEDIA</b>                         | Industrial Fluids (Semi-Rigid PA)                                        |
| <b>MEDIA</b>                         | Air (Compressed Air: Semi-Rigid PA)                                      |
| <b>APPLICATION</b>                   | Industrial Machinery                                                     |
| <b>APPLICATION</b>                   | Compressed Air                                                           |
| <b>APPLICATION</b>                   | Packaging                                                                |
| <b>APPLICATION</b>                   | Robotics                                                                 |
| <b>APPLICATION</b>                   | Motion Technologies                                                      |
| <b>APPLICATION</b>                   | Tooling                                                                  |
| <b>VACUUM PRESSURE RATING</b>        | 755 mm-Hg                                                                |
| <b>WEIGHT</b>                        | 26 kg/package                                                            |

NUMBER OF TUBES

1