



Polyurethane Tubing

Polyurethane tubing is usually the best choice for applications that requires extensive flexing small band radius or where kinking is a problem.

SHPI is available 2 series bases - **ESTER and ETHER**.

ESTER base is less expensive and generally stronger with higher tensile strength. However, applications should be limited to area of consistent low temperature and where high and continued flexibility is essential.

ETHER base will not break down or be affected in any way of moisture, more flexible at low temperature, it has characteristic of an elastometer with good elongation and recovery along with many of the desirable properties. Very suitable for durable use machines.

With precisely size controlling, **SHPI polyurethane tubing** can meet the standard of the push-in fittings.



Features

- Extremely flexible
- Ultra kink resistant
- Excellent memory
- Very abrasion resistant
- Low gas permeability
- Broad resistant/to chemicals, water, fuel, oil and fungus
- Conforms to RoHS
- Silicon-free

Applications

- Pneumatics controls
- Semiconductor equipment
- Vacuum equipment
- Robotics control system
- Automotive
- General manufacturing applications
- Fuel and lubrication line

Technical Data

- Safety factor 3 to 1
- Temperature range: -20°C to 60°C (-4°F to 140°F)

Tube OD (mm)	Tube OD Tolerance (mm)
4 to 8	0.10
10 to 12	0.15
16	0.2

Tube OD	Tube OD Tolerance
1/8" to 3/8"	±0.005"
1/2"	±0.007"
9/6"	±0.008"



Polyurethane Ester Base

US Series (Shore 98A)

Imperial Size

Part Number	Tube OD	Tube ID	Wall Thickness	Max. Working Pressure at 73°C	Min. Burst Pressure at 73°F	Min. Bend Radius	Package Length
	(inch)	(inch)	(inch)	(psi)	(psi)	(inch)	(ft)
US18066	1/8	0.066	0.030	220	660	3/16	100,300
US532094	5/32	0.094	0.031	143	430	3/8	100,300
US316107	3/16	0.107	0.040	165	495	3/8	100,300
US14160	1/4	0.160	0.045	143	430	1/2	100,300
US516187	5/16	0.187	0.062	165	495	1/2	100,300
US38250	3/8	0.250	0.062	132	396	1	100,300
US12320	1/2	0.320	0.090	148	444	1-1/8	100,300
US916375	9/16	0.375	0.094	130	390	2	100,300

*Other hardness, sizes and colours available on request. Please contact us for detailed ordering information.

Order information

- US38250300BU - Polyurethane Ester base tubing
- US38250300BU - Tube OD (3/8")
- US38250300BU - Tube ID (0.0250")
- US38250300BU - Tubing Length (300ft)
- US38250300BU - Colour (Blue)

Colour Code

• BU Blue	• BK Black
• G Green	• GY Grey
• OR Orange	• R Red
• Y Yellow	• T Transparent
• TBU Transparent Blue	

Max. Working Pressure at Different Temperature Reference Chart (Imperial Size)

