SHPI

Polyurethane Tubing Ether

UE series

PU Ether is pneumatic tubing for general industrial use, suitable for automation equipment and standard industrial pneumatic systems.

Made from polyether-based polyurethane, it provides hydrolysis resistance, low-temperature flexibility, and resistance to micro-organisms for humid, moisture-exposed, and low-temperature operating environments.

Multiple colors are available for circuit identification.

Key Features

- High flexibility
- Good elasticity
- Smooth surface
- Hydrolysis resistant
- Low-temperature flexibility
- Resistance to micro-organisms
- Multiple colors for circuit identification

Applications

- General industrial pneumatic systems
- Automation equipment and pneumatic modules
- Applications involving repeated flexing during equipment movement or installation in limited spaces
- High-humidity or moisture-exposed environments

Regulatory Compliance

- RoHS compliant
- REACH compliant

Technical Specifications

Material	Polyether-based Polyurethane
Hardness	95 Shore A
Operating Temp. Range	-40°C to 65°C (-40°F to 150°F)
Safety Factor	3 : 1

Tube Tolerance

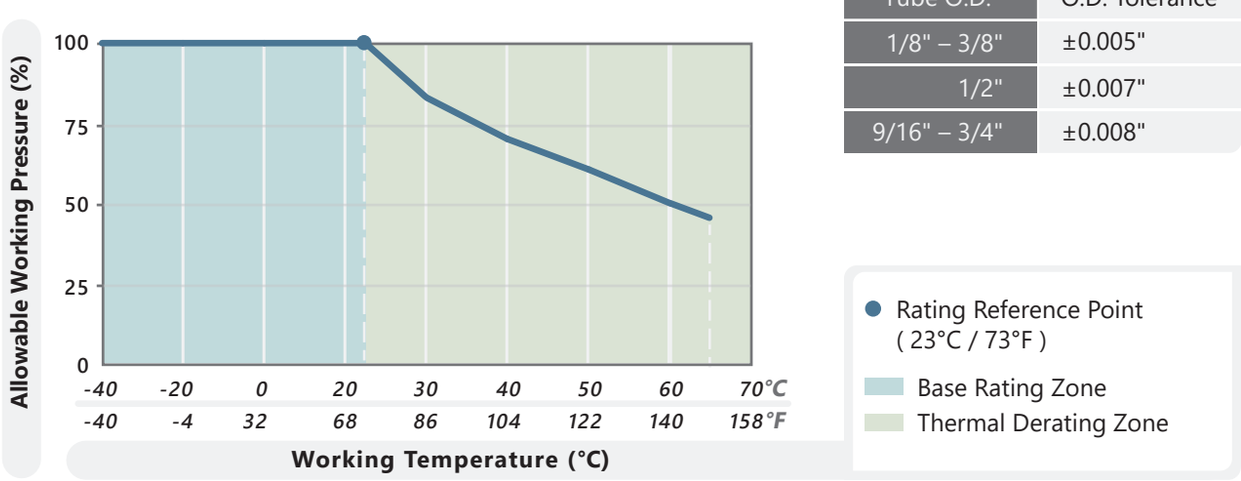
- Metric Sizes

Tube O.D.	O.D. Tolerance
3 – 8 mm	±0.10 mm
10 – 12 mm	±0.15 mm

- Imperial Sizes

Tube O.D.	O.D. Tolerance
1/8" – 3/8"	±0.005"
1/2"	±0.007"
9/16" – 3/4"	±0.008"

Maximum Working Pressure Derating Curve



SHPI

Specifications

* *Note : For certain sizes, the I.D. code in the model number may not directly correspond to the actual tube I.D. Please refer to the specification table for actual dimensions.*
* *Selected hardness levels, sizes, and colors may be available upon request. Please contact SHPI for availability.*

Metric Sizes - mm

Model Number	Tube OD	Tube ID	Wall Thickness	Weight	Max. Working Pressure 23°C (73°F)	Min. Burst Pressure 23°C (73°F)	Min. Bend Radius	Packing Length	Color		
+Color	mm	mm	mm	g/m	bar	bar	mm	m	NA	BK	BU
UE402525M_	4.0	2.5	0.75	8.8	10	30	15	25	□		
UE402550M_								50			
UE4025100M_								100			
UE402025M_	4.0	2.0	1.00	10.8	15	45	15	25	□		
UE402050M_								50			
UE4020100M_								100			
UE604025M_	6.0	4.0	1.00	18.1	13	39	25	25	□	■	■
UE604050M_								50			
UE6040100M_								100			
UE805025M_	8.0	5.0	1.50	35.2	10	30	30	25	□	■	■
UE805050M_								50			
UE8050100M_								100			
UE805525M_	8.0	5.5	1.25	30.5	9	27	40	25	□	■	■
UE805550M_								50			
UE8055100M_								100			
* UE806025M_	8.0	5.7	1.15	28.4	8	24	40	25	□	■	■
* UE806050M_								50			
* UE8060100M_								100			
UE106525M_	10.0	6.5	1.75	52.1	10	30	40	25	□	■	■
UE106550M_								50			
UE1065100M_								100			
UE107025M_	10.0	7.0	1.50	46.0	9	27	50	25	□		
UE107050M_								50			
UE1070100M_								100			
* UE108025M_	10.0	7.7	1.15	36.8	6	18	65	25	□	■	■
* UE108050M_								50			
* UE1080100M_								100			
UE128025M_	12.0	8.0	2.00	72.2	9	27	50	25	□		
UE128050M_								50			
UE1280100M_								100			
UE129025M_	12.0	9.0	1.50	56.9	7	21	70	25	□		
UE129050M_								50			
UE1290100M_								100			

Imperial Sizes - inch

Model Number	Tube OD	Tube ID	Wall Thickness	Weight	Max. Working Pressure 73°F (23°C)	Min. Burst Pressure 73°F (23°C)	Min. Bend Radius	Packing Length	Color							
+Color	inch	inch	inch	lbs/ft	psi	psi	inch	ft	T	TBU	BK	BU	G	R	OR	Y
UE18062100FT_	1/8	0.062	0.03	0.005	240	720	0.20	100	□	□	■	■	■	■	■	■
UE18062500FT_								500								
UE180621000FT_								1,000								
UE532093100FT_	5/32	0.093	0.03	0.006	200	600	0.25	100	□	□	■	■	■	■	■	■
UE532093500FT_								500								
UE5320931000FT_								1,000								
UE316125100FT_	3/16	0.125	0.03	0.008	150	450	0.34	100	□	□	■	■	■	■	■	■
UE316125500FT_								500								
UE3161251000FT_								1,000								
UE14156100FT_	1/4	0.156	0.05	0.015	180	540	0.47	100	□	□	■	■	■	■	■	■
UE14156500FT_								500								
UE141561000FT_								1,000								
UE516187100FT_	5/16	0.187	0.06	0.025	175	525	0.59	100	□	□	■	■	■	■	■	■
UE516187500FT_								500								
UE5161871000FT_								1,000								
UE38250100FT_	3/8	0.250	0.06	0.031	150	450	1.00	100	□	□	■	■	■	■	■	■
UE38250500FT_								500								
UE382501000FT_								1,000								
UE12328100FT_	1/2	0.328	0.09	0.056	150	450	1.10	100	□	□	■	■				■
UE12328250FT_								250								
UE12328500FT_								500								
UE916375100FT_	9/16	0.375	0.09	0.069	140	420	1.38	100	□	□	■	■				■
UE916375250FT_								250								
UE34500100FT_	3/4	0.500	0.13	0.122	140	420	1.50	100	□	□	■	■				■
UE34500250FT_								250								

Ordering Information

- Metric Sizes - mm

UE 40 25 25M NA

Material	
UE	Polyurethane - Ether

Outside Diameter	
40	4.0 mm
60	6.0 mm
80	8.0 mm
10	10.0 mm
12	12.0 mm

Inside Diameter	
20	2.0 mm
25	2.5 mm
40	4.0 mm
50	5.0 mm
55	5.5 mm
*60	5.7 mm
65	6.5 mm
70	7.0 mm
*80	7.7 mm
80	8.0 mm
90	9.0 mm

Package Length	
25M	25 Meters
50M	50 Meters
100M	100 Meters

Color Code	
NA	Natural
BK	Black
BU	Blue

- Imperial Sizes - inch

UE 18 062 100FT T

Material	
UE	Polyurethane - Ether

Outside Diameter	
18	1/8″
532	5/32″
316	3/16″
14	1/4″
516	5/16″
38	3/8″
12	1/2″
916	9/16″
34	3/4″

Inside Diameter	
062	0.062″
093	0.093″
125	0.125″
156	0.156″
187	0.187″
250	0.250″
328	0.328″
375	0.375″
375	0.375″

Package Length	
100FT	100 Feet
250FT	250 Feet
500FT	500 Feet
1000FT	1000 Feet

Color Code	
T	Transparent
TBU	Transparent Blue
BK	Black
BU	Blue
G	Green
R	Red
O	Orange
Y	Yellow

Contact Info

SHAN HUA PLASTIC INDUSTRIAL CO., LTD.
No. 20, Zhongshan 7th St., Guiren Dist., Tainan City 711012, Taiwan

Phone
+886-6-2304567

Fax
+886-6-2307799

Email
info@shanhua.com.tw