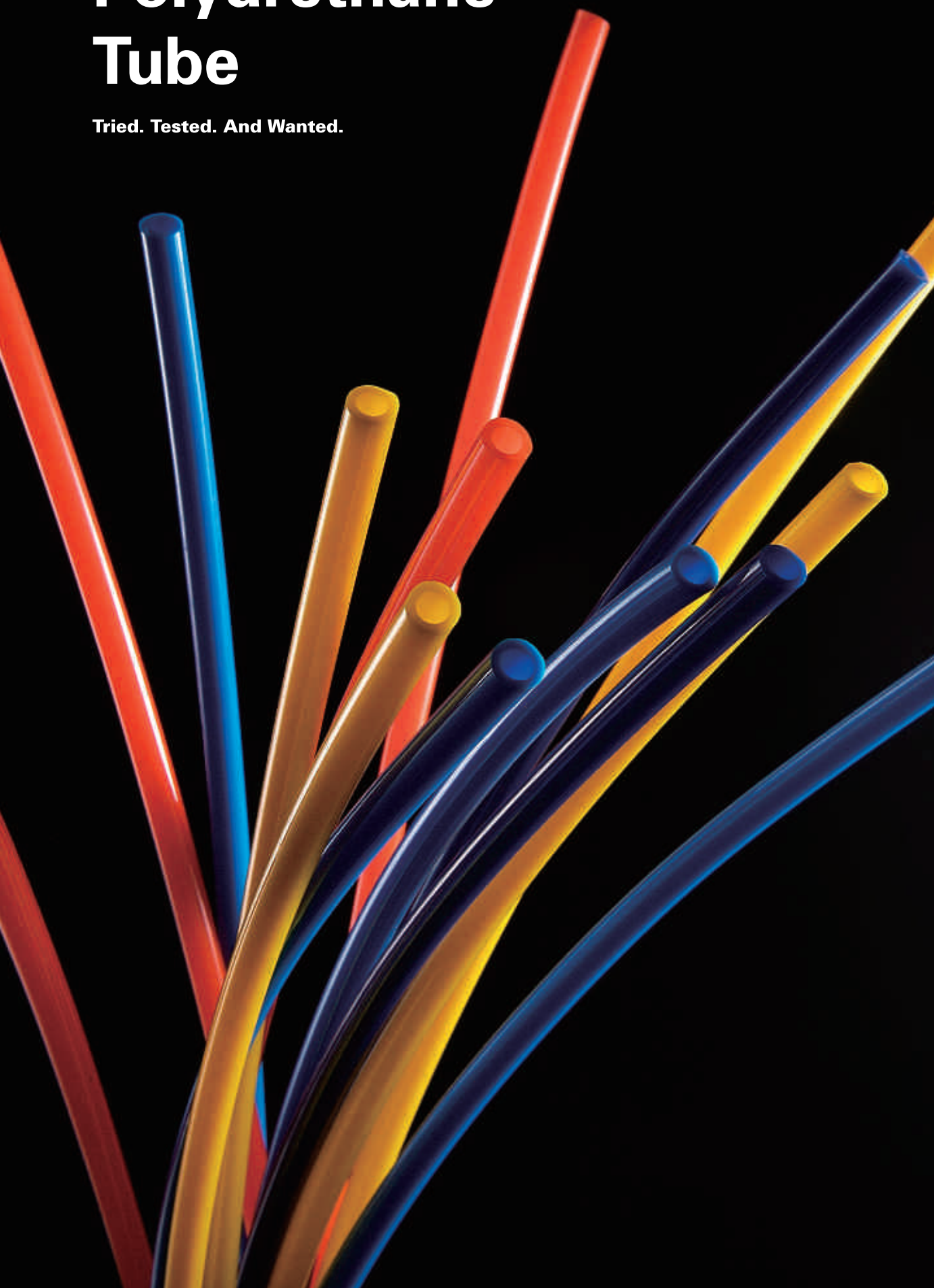


#1 Polyurethane Tube

Tried. Tested. And Wanted.



PRODUCT DESCRIPTION

FEATURE / BENEFITS

- Extremely Flexible / Small bend radius for routing into tight places
- Ultra Kink Resistant / Withstands abuse that would damage other plastic tubing
- Excellent Memory / Tolerates repeated flexing
- Very Abrasion Resistant / Outlasts other tubing, suitable for conveying abrasives
- Low Gas Permeability / Reduces leak and contamination problems
- Low Extractable / No plasticizers to leach or contaminate the media
- Low Compression Set / Maintains optimal physical properties.
- Broad Resistance / To chemicals, water, fuel, oil and fungus

POLYURETHANE

Polyurethane tubing is usually the best choice for applications that require extensive flexing, a small bend radius or where kinking can be a problem. SHPI uses Ether base raw material because it will not break down or be affected in any way by moisture.

A reason for SHPI to offer Ester base compounds instead is that they are less expensive and generally stronger with higher tensile strengths. However, applications should be limited to areas of consistent low temperatures and where high and continued flexibility is essential.

HARDNESS RANGE

SHPI commonly uses the 80A shore A to 62D shore among the durometer ranges.

85A Ether- is designed to work with mini-barb fittings. In this case, no clamps are needed to grip barb fittings onto smaller sized IDs at pressures up-to 100PSI. Compared to Ester, Ether provides additional flexibility when making tight bends significantly reducing risks of kinking.

95A Ether is moderately harder than 85A durometer tubing. This additional strength allows for significantly higher working pressure. However, it is also important to note that it is less flexible than lower durometer Polyurethane tubing.

98A Ester is even harder than 85A and 95A durometer and mostly used in the pneumatic tool industry where it is necessary to have high working pressure for heavy industrial applications. However, greater hardness characteristics results in less flexibility.

Other durometer also available for the customers request.

Please refer to page 103 for hardness comparison.

SMALLEST SIZE TOLERANCES

SHPI is the leading manufacturer of Polyurethane tubing in Taiwan.

With this in mind, we are proud to boast one of the largest variety of sizes, colors, configurations and package options available. SHPI production processes and quality assurance programs enable us to openly specify the smallest size tolerance.

APPLICATIONS

- a. Transfer of Air and Fluids Under Severe Conditions
- b. Feed and Return Lines
- c. Abrasive Slurry Transfer
- d. Granular Transfer Lines
- e. Small Engine Fuel Lines
- f. Robotics Control Lines
- g. Insulating Sleeves
- h. Lubrication Lines
- i. Metering Pumps

ORDER & PACKAGING

PLACING AN ORDER OR REQUEST

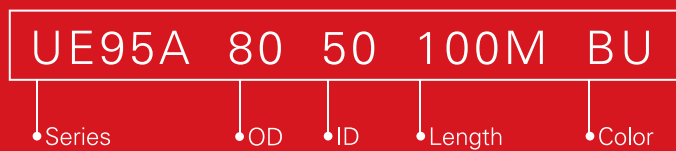
Specifying Standard Items:

Please specify the following:

1. Series(Item) Number
2. OD. Size
3. ID. Size
4. Tube length (Please specify Metric/Imperial)
5. Color

Example of a request

100M of 8 x 5 blue 95 A polyurethane Ether base



PACKAGING	TYPE	FEATURE
	<p>Paper Reel 100M or 200M 0 splices allowed</p>	<p>An easy to use standard package.</p>
	<p>Box 100M or 200M 0 splices allowed</p>	<p>A standard package that keeps dust away from the product.</p>
	<p>Plastic Bag 0 splices allowed</p>	<p>Smaller size package that keeps the dust away from the product.</p>
	<p>Film Wrapped 0 splices allowed</p>	<p>A package for special lengths and large-scaled O.D that can be recycled.</p>

** Other sizes, colors, printing, length and package option may be available*

SHPI strives to provide continuous lengths of tubing. However, manufacturing practices and stringent quality control processes will dictate the need for occasional splices.

Reels of tubing can be specially ordered without splices.

(Prior notice must be given when placing order)



98A_POLYURETHANE TUBE

Series

US98A Ester Base, Shore A 98 ± 2

Temperature Range

-40°C ~ 70°C

Tolerances:

3mm~ 8mm OD/ ± 0.1mm

10mm~12mm OD/ ± 0.15mm

16mm~18mm OD/ ± 0.2mm

± 0.5% on the weight

Working Pressure

3 to 1 safety factor

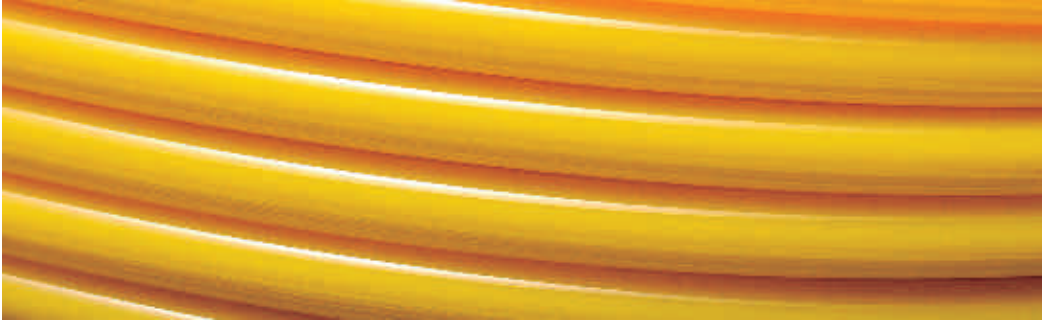
Working Pressure at elevated temperature
please refer page 98

Standard color

BU. Blue / **BK.** Black / **C.** Clear /

GY. Grey / **G.** Green / **OR.** Orange /

R. Red / **Y.** Yellow



METRIC SIZE

PART NUMBER	TUBE OD (mm)	TUBE ID (mm)	WALL THICKNESS (mm)	PACKAGE LENGTH (m)	WORKING PRESSURE AT 23°C (kg/cm ²)	BURST PRESSURE AT 23°C (kg/cm ²)	BEND RADIUS (mm)	WEIGHT PER100M (kg)
US98A3018	3.0	1.8	0.60	30,50,100	12	36	15	0.56
US98A4020	4.0	2.0	1.0	30,50,100	25	75	20	1.16
US98A4025	4.0	2.5	0.75	30,50,100	12	36	20	0.99
US98A5030	5.0	3.0	1.0	30,50,100	13	39	22	1.54
US98A6040	6.0	4.0	1.0	30,50,100	11	33	25	1.93
US98A8050	8.0	5.0	1.50	30,50,100	12	36	30	3.77
US98A8055	8.0	5.5	1.25	30,50,100	9	27	35	3.26
US98A8060	8.0	6.0	1.0	30,50,100	8	24	35	2.7
US98A1065	10.0	6.5	1.75	30,50,100	10	30	35	5.58
US98A1070	10.0	7.0	1.5	30,50,100	9	27	40	4.92
US98A1075	10.0	7.5	1.25	30,50,100	8	24	40	4.22
US98A1080	10.0	8.0	1.0	30,50,100	5.5	16.5	50	3.48
US98A1280	12.0	8.0	2.0	30,50,100	10	30	40	7.72
US98A1290	12.0	9.0	1.5	30,50,100	8	24	45	6.08
US98A1611	16.0	11.0	2.5	30,50,100	10	30	60	13
US98A1612	16.0	12.0	2.0	30,50,100	9	27	70	10.81
US98A1813	18.0	13.0	2.5	30,50,100	6.5	19.5	80	14.97

**Other sizes, colors, printing, length and package option may be available.*

Temperature Range

-40°F ~ 158°F

Diameter Tolerances:

1/8"~3/8" OD / ±.005"

15/32"~3/4" OD / ± .007"

± 0.5% on the weight

Working Pressure

3 to 1 safety factor

Working Pressure at elevated temperature
please refer page 98**Standard color****BU.** Blue / **BK.** Black / **C.** Clear /**GY.** Grey / **G.** Green / **OR.** Orange /**R.** Red / **Y.** Yellow**INCH SIZE**

PART NUMBER	TUBE OD (inch)	TUBE ID (inch)	WALL THICKNESS (inch)	PACKAGE LENGTH (ft)	WORKING PRESSURE AT 75°F (psi)	BURST PRESSURE AT 75°F (psi)	BEND RADIUS (inch)	WEIGHT PER100FT (lbs)
US98A18066	1/8	.066	.030	100,200,300	220	360	3/16	.50
US98A532094	5/32	.094	.031	100,200,300	143	430	3/8	.65
US98A532078	5/32	.078	.039	100,200,300	155	465	3/8	.75
US98A316107	3/16	.107	.040	100,200,300	165	495	3/8	1.00
US98A14125	1/4	.125	.062	100,200,300	200	600	3/8	1.94
US98A14160	1/4	.160	.045	100,200,300	143	430	1/2	1.54
US98A516187	5/16	.187	.062	100,200,300	165	495	1/2	2.60
US98A38245	3/8	.245	.065	100,200,300	143	430	7/8	3.35
US98A38250	3/8	.250	.062	100,200,300	132	396	1	3.24
US98A1532313	15/32	.313	.078	100,200,300	143	430	1-1/8	5.03
US98A12320	1/2	.320	.090	100,200,300	148	444	1-1/8	6.14
US98A12375	1/2	.375	.062	100,200,300	132	396	1-1/2	4.55
US98A916375	9/16	.375	.094	100,200	143	430	1-3/8	7.28
US98A34467	3/4	.467	.141	100,200	154	462	1.1/2	14.3

**Other sizes, colors, printing, length and package option may be available.*

95A_POLYURETHANE TUBE

Series

UE95A Ether Base, Shore A 95 ± 2

Temperature Range

-40°C ~ 70°C

Tolerances:

3mm~ 8mm OD/ ± 0.1mm

10mm~12mm OD/ ± 0.15mm

16mm~18mm OD/ ± 0.2mm

± 0.5% on the weight

Working Pressure

3 to 1 safety factor

Working Pressure at elevated temperature

please refer page 98

Standard color

BU. Blue / **BK.** Black / **C.** Clear /

GY. Grey / **G.** Green / **OR.** Orange /

R. Red / **Y.** Yellow



METRIC SIZE

PART NUMBER	TUBE OD (mm)	TUBE ID (mm)	WALL THICKNESS (mm)	PACKAGE LENGTH (m)	WORKING PRESSURE AT 23°C (kg/cm ²)	BURST PRESSURE AT 23°C (kg/cm ²)	BEND RADIUS (mm)	WEIGHT PER 100M (kg)
UE95A3018	3.0	1.8	0.60	30,50,100	11	33	15	0.56
UE95A4020	4.0	2.0	1.0	30,50,100	20	60	20	1.16
UE95A4025	4.0	2.5	0.75	30,50,100	11	33	20	0.99
UE95A5030	5.0	3.0	1.0	30,50,100	12	36	22	1.54
UE95A6040	6.0	4.0	1.0	30,50,100	10	30	25	1.93
UE95A8050	8.0	5.0	1.50	30,50,100	11	33	30	3.77
UE95A8055	8.0	5.5	1.25	30,50,100	8	24	35	3.26
UE95A8060	8.0	6.0	1.0	30,50,100	7	21	35	2.7
UE95A1065	10.0	6.5	1.75	30,50,100	9	27	35	5.58
UE95A1070	10.0	7.0	1.5	30,50,100	8	24	40	4.92
UE95A1075	10.0	7.5	1.25	30,50,100	7	21	40	4.22
UE95A1080	10.0	8.0	1.0	30,50,100	5	15	50	3.48
UE95A1280	12.0	8.0	2.0	30,50,100	9	27	40	7.72
UE95A1290	12.0	9.0	1.5	30,50,100	7	21	45	6.08
UE95A1611	16.0	11.0	2.5	30,50,100	9	27	60	13
UE95A1612	16.0	12.0	2.0	30,50,100	8	24	70	10.81

**Other sizes, colors, printing, length and package option may be available.*

Temperature Range

-40°F ~ 158°F

Diameter Tolerances

1/8"~3/8" OD / ±.005"

15/32"~3/4" OD / ± .007"

± 0.5% on the weight

Working Pressure

3 to 1 safety factor

Working Pressure at elevated temperature
please refer page 98**Standard color****BU.** Blue / **BK.** Black / **C.** Clear /**GY.** Grey / **G.** Green / **OR.** Orange /**R.** Red / **Y.** Yellow**INCH SIZE**

PART NUMBER	TUBE OD (inch)	TUBE ID (inch)	WALL THICKNESS (inch)	PACKAGE LENGTH (ft)	WORKING PRESSURE AT 75°F (psi)	BURST PRESSURE AT 75°F (psi)	BEND RADIUS (inch)	WEIGHT PER100FT (lbs)
UE95A18066	1/8	.066	.030	100,200,300	200	600	3/16	.50
UE95A532094	5/32	.094	.031	100,200,300	130	390	3/8	.65
UE95A532078	5/32	.078	.039	100,200,300	142	425	3/8	.75
UE95A316107	3/16	.107	.040	100,200,300	150	450	3/8	1.00
UE95A14125	1/4	.125	.062	100,200,300	180	540	3/8	1.94
UE95A14160	1/4	.160	.045	100,200,300	130	390	1/2	1.55
UE95A516187	5/16	.187	.062	100,200,300	150	450	1/2	2.60
UE95A38245	3/8	.245	.065	100,200,300	130	390	7/8	3.34
UE95A38250	3/8	.250	.062	100,200,300	120	360	1	3.23
UE95A1532313	15/32	.313	.078	100,200,300	130	390	1-1/8	5.03
UE95A12320	1/2	.320	.090	100,200,300	135	405	1-1/8	6.14
UE95A12375	1/2	.375	.062	100,200,300	120	360	1-1/2	4.55
UE95A916375	9/16	.375	.094	100,200	130	390	1-3/8	7.28
UE95A34467	3/4	.467	.141	100,200	140	420	1-1/2	14.3

**Other sizes, colors, printing, length and package option may be available.*