

## Полиуретановые трубки TU, TIUB

∅ 2~16

- Для общих случаев применения
- Возможны очень малые радиусы изгиба. 7 различных цветов

### Варианты исполнения

Тип	Типоразмер							
	TU0212	TIUB01□	TU0425□	TU0604□	TU0805□	TU1065□	TU1208□	TU1610□
Наружный ∅ трубки (мм)	2	3.18	4	6	8	10	12	16
Внутренний ∅ трубки (мм)	1.2	2	2.5	4	5	6.5	8	10
Мин. радиус изгиба* (мм)	4	10	10	15	20	27	35	45
Черный (B)	●	●	◐	◐	◐	◐	◐	◐
Белый (W)	●		◐	◐	◐	◐	◐	◐
Красный (R)	●		◐	◐	◐	◐	◐	по запросу
Голубой (BU)	●	●	◐	◐	◐	◐	◐	◐
Желтый (Y)	●		◐	◐	◐	◐	◐	по запросу
Зеленый (G)	●		◐	◐	◐	◐	◐	по запросу
Прозрачный (C)	●		◐	◐	◐	◐	◐	◐

\* для 20°C, наружный диаметр трубки изменяется макс. на 10%

- в рулонах по 20 м
- ◐ в рулонах по 20 и по 100 м

### Технические характеристики

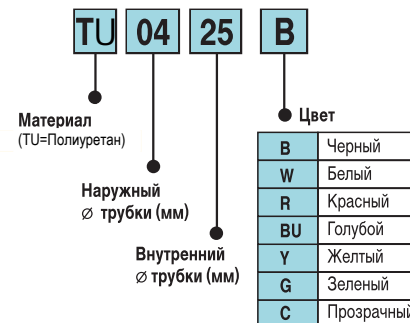
Среда	Сжатый воздух, вода
Макс. рабочее давление при 20°C (МПа)	0.8
Диапазон рабочих температур (°C) *	-20 ~ +60 (Вода: +5 ~ +40)
Материал	Полиуретан

\* при низких температурах применяйте сухой воздух

Трубка длиной  
100, 200, 400, 500 м -  
по запросу



### Номер для заказа



# Polyurethane Tubing

## 29 Colour Variations



- $\varnothing 2$  to  $\varnothing 16$  (Metric size)
- 1/8" to 1/2" (Inch size)
- For general pneumatic tubing
- Flexible



Series **TU/TIUB**



P-04-EU1Aa-UK

# Series Table

●:Standard model, ▲:Option model, ■:Upon receipt of order (Please contact SMC for details)

Model	Metric size (Series TU)							Inch size (Series TIUB)				
	TU0212	TU0425	TU0604	TU0805	TU1065	TU1208	TU1610	TIUB01	TIUB05	TIUB07	TIUB11	TIUB13
Tubing O.D. (mm)	2	4 (5/32")	6	8 (5/16")	10	12	16	1/8"	3/16"	1/4"	3/8"	1/2"
Tubing I.D. (mm)	1.2	2.5 (0.098")	4	5 (0.197")	6.5	8	10	0.079" (5/64")	0.125" (1/8")	0.167"	0.25" (1/4")	0.333"
Min. bending radius (mm)	4	10	15	20	27	35	45	10	15	23	27	35

Symbol	Colour	TU0212	TU0425	TU0604	TU0805	TU1065	TU1208	TU1610	TIUB01	TIUB05	TIUB07	TIUB11	TIUB13
B	Black	●	◇	●	●	●	●	●	●	●	●	●	●
W	White	●	◇	●	●	●	●	●	●	▲	▲	▲	▲
R	Red	●	◇	●	●	●	●	■	●	▲	▲	▲	▲
BU	Blue	●	◇	●	●	●	●	●	●	●	●	●	●
Y	Yellow	●	◇	●	●	●	●	■	●	▲	▲	▲	▲
G	Green	●	◇	●	●	●	●	■	●	▲	▲	▲	▲
C	Clear	●	◇	●	●	●	●	●	●	▲	▲	▲	▲
YR	Orange	■	●	●	●	●	●	■	●	▲	▲	▲	▲
BU1	Solid blue	■	●	●	●	●	●	■	●	■	■	■	■
BU2	Clear blue	■	●	●	●	●	●	■	●	■	■	■	■
BU3	Medium blue	■	●	●	●	●	●	■	●	■	■	■	■
BR1	Brown	■	●	●	●	●	●	■	●	■	■	■	■
G1	Solid green	■	●	●	●	●	●	■	●	■	■	■	■
G2	Clear green	■	●	●	●	●	●	■	●	■	■	■	■
G3	Neon green	■	●	●	●	●	●	■	●	■	■	■	■
G4	Dark green	■	●	●	●	●	●	■	●	■	■	■	■
GR1	Grey	■	●	●	●	●	●	■	●	■	■	■	■
GR2	Light grey	■	●	●	●	●	●	■	●	■	■	■	■
P1	Neon pink	■	●	●	●	●	●	■	●	■	■	■	■
PU1	Solid purple	■	●	●	●	●	●	■	●	■	■	■	■
PU2	Clear purple	■	●	●	●	●	●	■	●	■	■	■	■
R1	Solid red	■	●	●	●	●	●	■	●	■	■	■	■
R2	Clear red	■	●	●	●	●	●	■	●	■	■	■	■
S1	Silver	■	●	●	●	●	●	■	●	■	■	■	■
Y1	Solid yellow	■	●	●	●	●	●	■	●	■	■	■	■
Y2	Clear yellow	■	●	●	●	●	●	■	●	■	■	■	■
Y3	Neon yellow	■	●	●	●	●	●	■	●	■	■	■	■
YR1	Clear orange	■	●	●	●	●	●	■	●	■	■	■	■
YR2	Neon orange	■	●	●	●	●	●	■	●	■	■	■	■
Length per roll (m)		20							20, 100				20

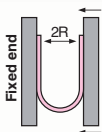
Note 1) ◇: 100 m roll, 200 m roll

## Specifications

Fluid	Air, Water
Max. operating pressure at 20 °C	0.8 MPa
Burst pressure	Refer to the burst pressure characteristics curve.
Operating temperature	-20 to 60 °C (Water: 0 to 40 °C) (No freezing)

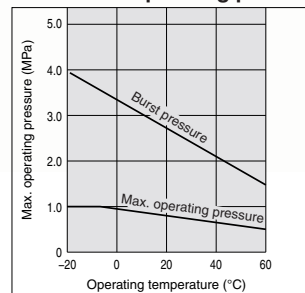
Please contact SMC for other fluids.

### Min. bending radius



Bend the tubing into a U shape at a temperature of 20 °C. Then with one side fixed, gradually close the other side and measure 2R at the point where the tubing folds or flattens, etc.

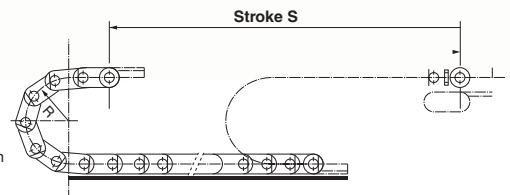
### Burst pressure characteristics curve and operating pressure



### Tubing durability (Reference value)

This value is a representative one from measurement and is not the guaranteed tube durability. The value of tubing durability under the conditions below is **10 million times** (Condition: With grease on tubing surface)

Tubing : TU0425/TU0604  
 Pressure : 0.5 MPa  
 Frequency : 25 c.p.m.  
 Move speed : 750 mm/s  
 Stroke : 500 mm  
 Bending radius R : 28 mm



### How to Order

**TU0425 BU - 20**

Tubing model

Length per roll

Symbol	Length
20	20 m roll
100	100 m roll
200	200 m roll

Colour

Symbol	Colour	Symbol	Colour
B	Black (Opaque)	GR1	Grey (Opaque)
W	White (Translucent)	GR2	Light grey (Opaque)
R	Red (Translucent)	P1	Neon pink (Opaque)
BU	Blue (Translucent)	PU1	Solid purple (Opaque)
Y	Yellow (Opaque)	PU2	Clear purple (Translucent)
G	Green (Opaque)	R1	Solid red (Opaque)
C	Clear (Material colour)	R2	Clear red (Translucent)
YR	Orange (Opaque)	S1	Silver (Opaque)
BU1	Solid blue (Opaque)	Y1	Solid yellow (Opaque)
BU2	Clear blue (Translucent)	Y2	Clear yellow (Translucent)
BU3	Medium blue (Opaque)	Y3	Neon yellow (Opaque)
BR1	Brown (Opaque)	YR1	Clear orange (Translucent)
G1	Solid green (Opaque)	YR2	Neon orange (Opaque)
G2	Clear green (Translucent)		
G3	Neon green (Opaque)		
G4	Dark green (Opaque)		

### Made to Order

(Please contact SMC for specifications in detail, dimensions, delivery and specifications other than those mentioned above.)

<b>100 m reel</b>	Metric size and Inch size: Suffix "-X3" to the end of part number. Ex.) TU0425R-100-X3
<b>Longer length reel</b>	Metric size: Suffix "-X3" to the end of part number. Ex.) TU0425G-500-X3
<b>20 m roll</b>	Inch size: Suffix "-X4" to the end of part number. Ex.) TIUB07W-20-X4
<b>Compatible with the Food Sanitation Law</b>	Metric size: Suffix "-X217" to the end of part number. Ex.) TU0425BU-20-X217

### Made to Order Availability

Part no.	Length	Model	TU0425 *	TU0604 *	TU0805 *	TU1065 *	TU1208 *	TIUB01 *	TIUB05 *	TIUB07 *	TIUB11 *	TIUB13 *	Colour
X3	100 m reel		○	○	○	○	○	○	○	○	○	○	Black, White, Red, Blue, Yellow, Green, Clear, Orange
	200 m reel			○									
	400 m reel			○									
	500 m reel		○										
X4	20 m roll							○	○	○	○	Red, White, Yellow, Green, Clear, Orange	
X217*	20 m roll		○	○	○	○	○					Black, White, Blue, Clear	

\* Note that the model number is not printed on the tube body.

## ⚠ Precautions

### ⚠ Caution

1. Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. Also, the surge voltage pressure must be under the maximum operating pressure. If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes.
2. The value of the max. operating pressure is at a temperature of 20 °C. Refer to the burst pressure characteristics curve for other temperatures. Furthermore, abnormal temperature rises caused by adiabatic compression may result in the burst of the tube.
3. The value of the minimum bending radius is measured at the temperature of 20 °C as shown in the figure below.