Soft Nylon Tubing
Series **TS/TISA**

RoHS

For general pneumatic tubing
Pliable soft nylon tubing

Burst Pressure Characteristics Curve and Operating Pressure

⚠ Precautions

Be sure to read before handling. Refer to front matters 58 and 59 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.

⚠ Caution

1. Compatible with water due to a change in materials. Compatible fluid types are printed on the tube body for differentiation, so please be sure to check this. Note) If using the previous TS/TISA series with "water", the tube may shrink and cause air leakage or the tube may fall out.
2. Please exercise caution when using this item in a clean room. There is a possibility of plasticizer and other materials precipitating on the tube surface and detracting from the cleanliness level of the room.
3. The value of the minimum bending radius is measured at the temperature of 20°C as shown in the figure below.
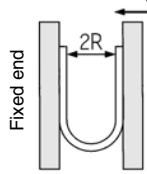
Bend the tube into U-form at a temperature of 20°C. Fix one end and close loop gradually. Measure 2R when the tube breaks or is crushed.

Model

● — 20 m roll   □ — 100 m roll (TS1612 is reel.)

		Tubing size									
		Metric size (Series TS)						Inch size (Series TISA)				
Model		TS0425	TS0604	TS0806	TS1075	TS1209	TS1612	TISA01	TISA05	TISA07	TISA11	TISA13
Tubing O.D. (mm)		4	6	8	10	12	16	3.18	4.76	6.35	9.53	12.7
Tubing I.D. (mm)		2.5	4	6	7.5	9	12	2.18	3.48	4.57	6.99	9.56
Black (B)		☑	☑	☑	☑	☑	☑	●	●	●	●	●
White (W)		☑	☑	☑	☑	☑	☑	●	●	●	●	●
Red (R)		●	●	●	●	●						
Blue (BU)		●	●	●	●	●						
Yellow (Y)		●	●	●	●	●						
Green (G)		●	●	●	●	●						

5/32 "	5/16 "	Nominal size (inch)				
		1/8 "	3/16 "	1/4 "	3/8 "	1/2 "

Nominal size (mm) 3.2

Specifications

Fluid		Air/Water Note)	
Max. operating pressure MPa	20°C	1	
	40°C	1	0.8
	60°C	0.8	0.6
Burst pressure		Refer to the burst pressure characteristics curve.	
Applicable fittings		One-touch fittings, Insert fittings, Self-align fittings, Miniature fittings	
Min. bending radius (mm)		12 17 34 42 52 70 12 15 23 42 52	
Operating temperature		–20 to +60°C, water: 0 to +40°C (No freezing)	
Material		Nylon 12	

Note) Refer to the "Printing/Fluid".

Printing/Fluid

	Print code	Fluid
Previous	SMC TS 0604 SOFTNYLON 6 x 4	Air
NEW	● SMC TS 0604 SOFTNYLON 6 x 4	Air/Water

How to Order

TS0604 **W** **– 100**

Tubing model

Length per roll

Symbol	Length
20	20 m roll
100	100 m roll (Black and white only)

Color

Symbol	Color
B	Black
W	White
R	Red
BU	Blue
Y	Yellow
G	Green

Made to Order

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

100 m reel	Metric size and Inch size except ø16: Suffix "-X3" to the end of part number. Ex.) TS0425R-100-X3
Longer length reel	Metric size: Suffix "-X3" to the end of part number. Ex.) TS0425G-500-X3
20 m roll	Inch size: Suffix "-X4" to the end of part number. Ex.) TISA01BU-20-X4

Made to Order Availability

Part no.	Length / Model	TS0425*	TS0604*	TS0806*	TS1075*	TS1209*	TISA01*	TISA05*	TISA07*	TISA11*	TISA13*	Color
X3	100 m reel	○	○	○	○	○	○	○	○	○	○	Black, White, Red, Blue, Yellow, Green
	150 m reel				○							
	200 m reel			○								
	500 m reel	○	○									
X4	20 m roll						○	○	○	○	○	Red, Blue, Yellow, Green

SMC