

Clean Tubing: Soft Polyolefin Tubing **TPS Series**

RoHS



Complies with FDA
(U.S. Food and Drug Administration)
\$175.300 dissolution test

●: Applicable —: Non-conformance

White (W)	●
Black (B)	—
Red (R)	—
Blue (BU)	●
Yellow (Y)	●
Green (G)	—

Model/Specifications

● — 20 m roll □ — 100 m roll

Model	TPS0425	TPS0604	TPS0805	TPS1065	TPS1208
O.D. (mm)	4	6	8	10	12
I.D. (mm)	2.5	4	5	6.5	8

White (W)	●	□	●	□	●
Black (B)	●	●	●	●	●
Red (R)	●	●	●	●	●
Blue (BU)	●	●	●	●	●
Yellow (Y)	●	●	●	●	●
Green (G)	●	●	●	●	●

Fluid ^{Note 1)}	Air/N ₂ /Water/DI water (Pure water)				
Max. operating pressure (MPa)	20°C	0.7			
	40°C	0.58			
	60°C	0.46			
	80°C	0.33			
Operating vacuum pressure (kPa) ^{Note 2)}	- 101.3				
Min. bending radius (mm) ^{Note 3)}	10	20	25	30	40
Applicable fittings ^{Note 1)}	Clean one-touch fittings One-touch fittings, Metal: KQB2 series One-touch fittings, Stainless steel 316: KQG2 series Insert fittings				
Operating temperature	- 20 to 80°C, For water 5 to 80°C				
Material ^{Note 4)}	Polyolefin resin				

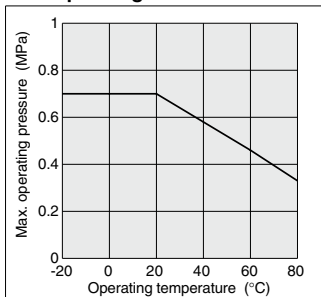
Note 1) Please consult with SMC regarding other fluids. When using a fluid in liquid form, the surge pressure must be no more than the maximum operating pressure. A surge pressure higher than the maximum operating pressure can cause breakage of the fitting or bursting of the tubing. Furthermore, abnormal temperature rise caused by adiabatic compression may result in the tube bursting.

Note 2) The operating vacuum pressure varies depending on the applicable fitting, so refer to the fitting specifications for details.

Note 3) The minimum bending radius indicates the value at a temperature of 20°C with an outside diameter rate of change of 10% or less.

Note 4) Polyolefin resin is not suitable for regular pneumatic equipment piping because it is not resistant to mineral oil.

Max. Operating Pressure



How to Order

TPS0604 B - 20

Tubing model ●

Color ●

Length per roll ●

Symbol	Color
W	White (Material color)
B	Black (Opaque)
R	Red (Opaque)
BU	Blue (Opaque)
Y	Yellow (Opaque)
G	Green (Opaque)

Symbol	Length
20	20 m roll
100	100 m roll