Fluoropolymer Tubing (PFA) **Metric Size**

TLM Series



Series

Flame resistant (Equivalent to UL-94 Standard V-0)

Size				Metric size												
Model TLM0201 TLM03			TLM0302	TLM0425	TLM0403	TLM0604	TLM0806	TLM1075	TLM1008	TLM1209	TLM1210	TLM1613	TLM1916	TLM2522		
Tubing size Ø			ø2 x ø1	ø3 x ø2	ø4 x ø2.5	ø4 x ø3	ø6 x ø4	ø8 x ø6	ø10 x ø7.5	ø10 x ø8	ø12 x ø9	ø12 x ø10	ø16 x ø13	ø19 x ø16	ø25 x ø22	
O.D. (mm)			2	3	4	4	6	8	10	10	12	12	16	19	25	
I.D. (mm)			1	2	2.5	3	4	6	7.5	8	9	10	13	16	22	
Length	per roll	Color	Symbol	1												
Roll	10 m	Translucent	N							•	•	•	•	•	•	
	20 m	Translucent	N	•	•	•	•	•	•	•	•	•	•	•	•	•
		Red (Translucent)	R	•	•	•	•	•	•	•	•	•	•	•	•	•
		Blue (Translucent)	BU	•	•	•	•	•	•	•	•	•	•	•	•	•
		Black (Opaque)	В	•	•	•	•	•	•	•	•	•	•	•	•	•
	50 m	Translucent	N	•	•	•	•	•	•	•	•	•	•	•	•	•
	100 m	Translucent	N	•	•	•	•	•	•	•	•	•	•	•	•	
Straight	2 m	Translucent	N	•	•	•	•	•	•	•	•	•	•	•	•	•

5/32"

5/16"

O.D. 3.2 mm is available in ø 1/8 inch (3.18 mm) tubing. For details, refer to the table "Series" on page 505.

Specifications

Opcomod	1110110													
Fluid Note 1) 2) 3) and applicable fittings Note 1) 2) 3)		Fluid: Re	efer to "Ap	plicable Fl	uid List" o	n page 512	Fitting	s: Fluorop	olymer fitti	ngs LQ se	ries			
		Fluid: Ai	Fluid: Air, Water, Inert gas Fittings: One-touch fittings KQ2, KQG2, KQB2, Clean One-touch fittings KP, KP											
	approcasio mango		Insert fittings KF, KFG2, Miniature fittings M, MS (Hose nipple type)											
Max. operating pressure (MPa)		Refer to the max. operating pressure curve.												
Min. bending	Recommended radius	10	20	20	35	35	60	95	100	100	130	160	220	400
radius (mm) Note 4)	Tube close bend radius	7	15	15	20	20	40	60	65	65	110	130	160	290
Max. operating temperature		260°C												
Material			PFA (Tetrafluoroethylene perfluoroalkoxy vinyl ether copolymer)											

Note 1) Fluid varies depending on the applicable fittings.

Note 1) Fluid varies depending on the applicable fittings.

Note 2) When using a liquid fluid, the surge pressure must not exceed the maximum operating pressure. If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes. Furthermore, abnormal temperature rise caused by adiabatic compression may result in the tube bursting.

Note 3) Do not use this product in a manner in which the tube is not fixed. Observe the lesser value of the maximum operating pressure between the tubing and fitting. A material change over a long duration or due to high-temperature may cause leakage. Perform periodic maintenance and replace with a new product immediately when abnormalities are detected. (Refer to "Maintenance" of the tubing precautions on page 514.)

For other precautions, refer to "Fittings & Tubing Precautions" on pages 13 to 17. When using the fluoropolymer fittings, refer to the precautions on pages 445 and 446.

Note 4) Minimum bending radius is measured as shown left as representative values.

**Use a tube above the recommended minimum bending readus.

- Use a tube above the recommended minimum bending radius.
 The tube may be bent if used under the recommended minimum bending radius. Therefore, refer to the tube close bend radius and make sure that the tube is not bent or flattened.

 • Please note that the tube close bend radius is not warranted because of the value when 2R is measured by the method
- in the right figure if the tube is bent or flattened, etc.

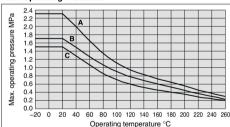
• The minimum bending radius shown above does not apply to the straight pipe (2 m).

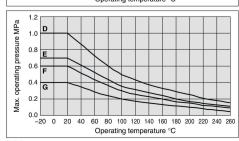
How to measure the minimum bending radius



At a temperature of 20°C, bend the tubing into a U shape. Fix one end and gradually move the other end closer. Measure 2R at the point where the outside diameter's rate of change is 5%.

Max. Operating Pressure





Group	Model	Max. operating pressure (MPa)							
Group	Wiodei	20°C	100°C	200°C	260°C				
Α	TLM0201	2.3	1.1	0.55	0.3				
В	TLM0425	1.7	0.9	0.45	0.23				
С	TLM0302	1.5	0.7	0.35	0.2				
C	TLM0604	1.5	0.7	0.35					
	TLM0403								
D	TLM0806	1	0.5	0.25	0.15				
0	TLM1075								
	TLM1209								
E	TLM1008	0.7	0.35	0.17	0.11				
_	TLM1613	0.7	0.35	0.17					
F	TLM1210	0.6	0.3	0.15	0.1				
-	TLM1916	0.6	0.3	0.15	0.1				
G	TLM2522	0.4	0.2	0.1	0.05				

How to Order

Metric size .M0425 N - 20

Tubing • designation

Color indication

	Color malcations						
Symbol	Color						
N	Translucent (Material color)						
R	Red (Translucent)						
BU	Blue (Translucent)						
В	Black (Opaque)						

Length per roll

Symbol	Type	Length			
10		10 m			
20	D. II	20 m			
50	Roll	50 m			
100		100 m			
2S	Straight	2 m			

Note) Refer to the table "Series above, as the tubing length differs depending on each size.