Fluoropolymer Tubing (PFA) Inch Size

TILM Series



Series

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

in ø8 metric tubing. For details, refer to the table "Series" on page 504.

Size			Inch size											
Model			TILN	101	TILM	B01	TILM05	TILM07	TILM1	1 TILM13	TILM19	TILM25	TILM32	
Tubing size			1/8" x C	0.086"	1/8" x	1/16"	3/16" x 1/8"	1/4" x 5/32	" 3/8" x 1/	'4" 1/2" x 3/8'	3/4" x 5/8"	1" x 7/8"	11/4" x 11/10"	
O.D.		inch		1/8	3"	1/8	; "	3/16"	1/4"	3/8"	1/2"	3/4"	1"	11/4"
		mm		3.18			4.75	6.35	9.53	12.7	19.05	25.4	31.75	
I.D.		inch		0.08	36"	1/10	6"	1/8"	5/32"	1/4"	3/8"	5/8"	7/8"	11/10"
		mm		2.1	8	1.5	8	3.15	3.95	6.33	9.5	15.85	22.2	27.95
Lengtl	h per roll	Color	Symbol	1										
	10 m	Translucent	N							•	•			
	20 m	Translucent	N	•	l.	•	6	•	•	•	•	•	•	•
		Red (Translucent)		•		•		•	•	•	•	•	•	•
		Blue (Translucent)	BU	•	Ī	•	i i	•	•	•	•	•	•	•
Roll		Black (Opaque)		•	0	•		•	•	•	•	•	•	•
	50 m	Translucent	N	•	ı			•	•	•	•	•	•	•
		Translucent	N	•				•	•	•	•	•		
		Translucent	N	•	r.	•		•	•	•	•	•	•	•
		Translucent	N	•	C.	•		•	•	•	•	•	•	•
Straight	2 m	Translucent	N	•				•	•	•	•	•	•	•
				M	letric C).D. size				1.0	D. 5/32" is availab	le in ø4 metric tr	ubing, and O.D. 5	/16" is available

Specifications

opeomeations											
Fluid Note 1) 2) 3) and		Fluid: Refer to "Applicable Fluid List" on page 512. Fittings: Fluoropolymer fittings LQ series									
applicable fittings Note 1) 2) 3)		Fluid: Air, Water, Inert gas Fittings: One-touch fittings KQ2, KQB2, Insert fittings KFG2									
Max. operating pressure (MPa)		Refer to the max. operating pressure curve.									
	commended radius	20	10	25	35	60	95	220	400	500	
radius (mm) Note 4) Tub	oe close bend radius	12	6	20	20	30	60	160	290	360	
Max. operating temperature		260°C									
Material		PFA (Tetrafluoroethylene perfluoroalkoxy vinyl ether copolymer)									

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 tube 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 radius.

- 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).

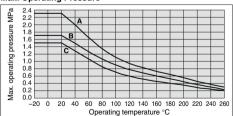
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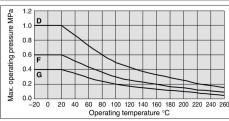
How to measure the minimum bending radius



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)						
Стопр		20°C	100°C	200°C	260°C			
Α	TILMB01	2.3	1.1	0.55	0.3			
В	TILM07	1.7	0.9	0.45	0.23			
С	TILM05	1.5	0.7	0.35	0.2			
C	TILM11	1.5						
D	TILM01	1	0.5	0.25	0.15			
	TILM13		0.5	0.25				
F	TILM19	0.6	0.3	0.15	0.1			
G	TILM25	0.4	0.2	0.1	0.05			
u	TILM32	0.4			0.05			

How to Order

Inch size TILM01||N|

Tubing 6 designation

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

Length per roll

Type	Length		
	10 m		
	20 m		
D-11	50 m		
Holi	100 m		
	16 m (50 ft)		
	33 m (100 ft)		
Straight	2 m		
	Roll		

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

KQ2

KQB2

KM KF

H/DL L/LL

KC

KK

KK130

DM **KDM**

KB

KR

KA

KQG2

KG

KFG2

MS KKA

KP

LQ

MOR

IDK