Polyolefin Resin Tubing



For clean piping (flexible)

Features

- A clean tubing suitable for equipment and applications with fluids such as clean air, N2 gas, pure water and various chemical liquids.
- Environment-friendly eco tubing. When burned at 750°C, PL tubing generates only carbon dioxide gas, no nitrogen oxides (NOx), no sulfur oxides (SOx), and absolutely no dioxin.
- Produced, end-sealed, heat-sealed for shipping in a cleanroom.
- Made of special polyolefin resin with high water barrier performance and flexibility
- Low cost compared to fluorocarbon resin tubes.
- Compliant with the MHLW Ministerial Notification No.201(2006), MHW Ministerial Notification No.370(1959), Japan.

Product number table

Millimeter size type (Group 4)

	Outer diameter	Max.	Min. Standard color (color sym					bol)		
Туре	Inner diameter	working pressure	bending radius (mm)	Weight (g/m)	Black	Milky white	Red	Blue	Yellow	Green
	(mm)	(MPa at 20°C)			вк	MW	RE	BU	YL	GN
PL-4-4×2	4×2	1.5	15	10	•	0	•	•	0	•
PL-4-6×4	6×4	1.0	25	15	•	0	•	0	0	
PL-4-8×6	8×6	0.7	35	20	•	0	•	•	0	
PL-4-10×7.5	10×7.5	0.7	45	30	_	0	_	-	_	_
PL-4-10×8	10×8	0.5	45	25	•	0	•	0	0	
PL-4-12×9	12×9	0.7	55	45	•	0	•	•	0	

Inch size type (Group 1)

Then size type (Group 1)										
	Outer diameter	Max.	Min.		Star	Standard color (color symbol)				
Туре	Inner diameter	working pressure	bending radius	Weight (g/m)	Black	Milky white	Red	Blue	Yellow	Green
	(mm)	(MPa at 20°C)	(mm)	(9/11)	вк	MW	RE	BU	YL	GN
PL-1-1/4	6.35×4.57		30	14	•	0	•	•	0	0
PL-1-3/8	9.53×6.99	0.7	40	30	•	0	•		0	
PL-1-1/2	12.70×9.56		55	50	•	0		•	0	•

Inch size type (Group 5)

Туре	Outer diameter × Inner diameter (mm)	Outer diameter	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol) Milky white
PL-5-3.18×2	3.18×2	1/8	0.9	7	4	0

Applicable fittings for Group 5 are Chemifit C1 series and Chemifit C1S series with the same outer diameter.

Product number example

Standard length

PL - 4 - 6×4 - BK - 100M

20M, 100M

Standard length (20M, 100M) Tubing color symbol Size (millimeter: outer x inner, inch: outer) Group (4: millimeter, 1: inch, 5: inch)

Tubing name

Clean-conscious

product

Operating fluid, working temperature range

Operating fluid	Working temperature range				
Air (clean air)	-60°C~+80°C				
Water (pure water)	0°C~+80°C				

信Contact us for various chemical liquids.

信See "Combination List of Tubing and Fitting" on page 8.

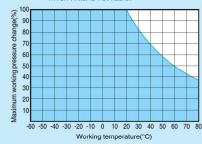
Negative pressure performance

-101.294kPa

Relation between the working temperature and the maximum working pressure

The maximum working pressure varies with the working temperature (environmental temperature). For use at an abnormal temperature, always check the maximum working pressure change in the graph below and keep the pressure within the indicated range

Caution: Using tubes at a pressure outside the range may cause accidents or damage, for which Nitta is not liable.



Handling instructions

Caution: When water is used as the operating fluid, the tubing material might degrade depending on the additive. Contact us for details.

Caution: When water is used as the operating fluid, keep the surge pressure below the maximum working pressure. Also, do not allow the water to freeze.

See page 10 for common instructions for tubing

Applicable fittings

Chemifit C1 series

Chemifit C1S series

Chemifit CSE series











Applicable fittings



Related products and product introduction



Reference

Chemical resistance specification tableP.198 Effective sectional area ··· P.168 Negative-pressure performance listP.169

Combinatory use of PL tubing and PushOne series / QuickSeal series mixes general and clean type performances. When using them together in a clean environment, be aware of how this could lower the cleanliness level.