

# Flexible Fluorine (PVDF) Resin Tubing

[Model Number: E-PD-(I.D. × O.D.)]

Applications • Fluids



- For Industrial Water-based Ink-Jet Printers (For Ink-Supplying Pipes)
- For Transferring Chemicals used in Laboratory Equipment
- For Transferring Chemicals used in Semiconductor-Related Devices and Flat-Panel Display (FPD) Manufacturing Devices
- For Transferring Beverage and Food
- For Transferring Alcohol, Cosmetics, and Chemicals
- For Transferring Chemicals used in Medical Equipment, Endoscope, and so on
- For Transferring Chemicals used in Manufacturing Fuel Cell and Pure Water
- For Transferring Air at Clean Room

## Standard • Packing Information

Model Number	Inch (Inside Diamater) (*1)	I.D. × O.D.	Working Pressure MPa		Minimum Bend Radius at 20°C	Temperature Range	Standard Length	Product Weight	Color	Packing Dimension(*2)			
										Packing	Diameter (D)	Height (H)	Weight/roll
		mm	at 20℃	at 80℃	mm	C	m	kg/roll			cm	cm	kg/roll
E-PD-2×4	5/64	2×4	0~0.6		15		20	0.24	Clear	Plastic Bag	23.5	5	0.24
					15		100	1.21		Cardboard Box	38.5	15	1.73
E-PD-4×6	5/32	4×6			25		20	0.41		Plastic Bag	26	5	0.41
							100	2.03		Cardboard Box	38.5	15	2.55
E-PD-6×8	1/4	6×8	0~0.4	0~0.2	50	— 20 ~ 80	20	0.57		Plastic Bag	30	5.5	0.57
							100	2.86		Paper Bobbin	38.5	15	3.78
E-PD-6×9	1/4	6×9			35		20	0.89		Plastic Bag	33	5.5	0.89
							100	4.43		Paper Bobbin	38.5	15	5.35
E-PD-8×12	5/16	8×12	0~0.6		50		20	1.55		Plastic Bag	35.5	8	1.55
							100	7.74		Paper Bobbin	46	16	8.92

\*1: Please note that inch size is approximate, which is not equal to milliunit.

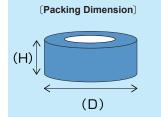
\*2: "Diameter (D)" imes "Height (H)" means "External Dimensions of Cardboard Box (D)" imes "Height (H)."



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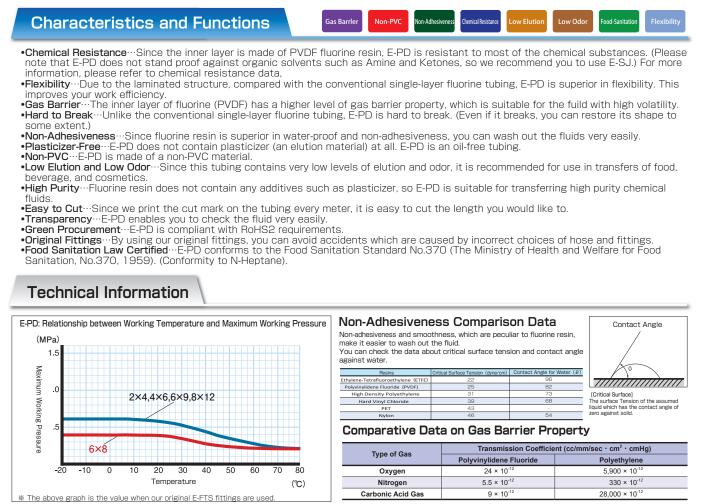


ISO 9001:2008

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## (Flexibility Comparative Data)

This is one indication of flexibility.
Flexibility varies depending on hose

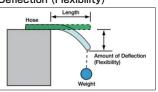
- (tubing). The larger the amount of deflection is,
- the more flexible the hose (tubing) is.
- \*The lower the minimum bend radius value is, the harder the hose (tubing) is

,	(Test Temperature:20°C)							
Test Sample	Minimum Bend Radius (mm)	Amount of Deflection (mm)						
① E-PD-4 × 6	23 (Catalog Value : 25)	28						
℗ E-SJ-4 × 6	23 (Catalog Value : 25)	31						
$\textcircled{3}$ PTFE Tubing (4 $\times$ 6)	20	7						
@ PFATubing (4 × 6)	23	6						

Test Method for Amount of Deflection (Flexibllity)

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Add a 50 gram weight to the end
Add a 50 gram weight to the end
of the tubing for one minute. Then,
measure the amount of deflection.
(The test piece goes through the
annealing step in advance to make it
straight.)
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3 PTFE Tubing and ④ PFA Tubing are not our products.



## **HAKKO Original Fittings**

Model Number	Body								Nut		Applicable	
	Α	В	С	D	E	Thread	HEX	F	HEX	Gram/Piece	Hose	
E-FTS-2×4-R1/8	24.5	10	4	10.5	1.7	R1/8	10	10.5	10	16	E-PD-2×4	
E-FTS-4×6-R1/4	31	12	5	14	3.5	R1/4	14	14	14	33	E-PD-4×6	
E-FTS-6×8-R1/4	33	12	5	16	5.5	R1/4	17	16	14	30	E-PD-6×8	
E-FTS-6×9-R1/4	35.5	12	5	18.5	5.5	R1/4	17	18.5	17	44	E-PD-6×9	
E-FTS-8×12-R3/8	41	13	7	21	7	R3/8	19	21	19	63	E-PD-8×12	

Material: 316 L Steel Use Stainless (Body) and 304 Steel Use Stainless (Nut)

\*Due to the laminated structure tubing, please use the joints to seal an inner surface of the hose. \*Please do not use the joints to seal an outer surface of the hose. This may result in the bursting or coming off from the hose. \*When you use our products, please refer to "Precautions for Use" available on our webpage and product catalog. \*In terms of chemical resistance, please refer to "Chemical Resistance Data" available on our webpage and product catalog. \*Although the inner layer is made of fluorine, please make sure whether or not E-PD is usable for high purity fluids before you use. \*Although the inner layer is resistance to fluids, but depending on working environments, the fluids would be permeated through the inner layer, resulting in the danger of swelling and degradation of the middle or outer layer.

Contact us if you have any inquiries about HAKKO products



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