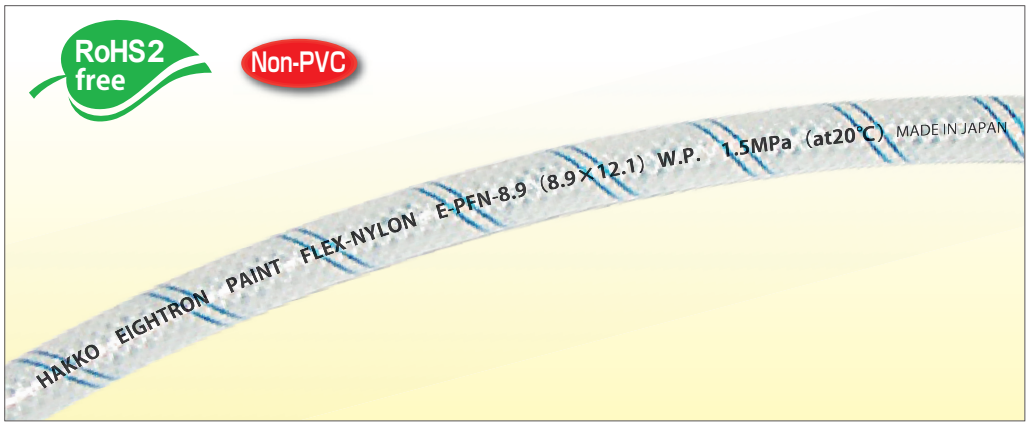
Solvent Transfer and Paint Hose | Flexible Paint Hose for Automobile Paints, Organic Solvents; Long Duration

Paint-Flex Nylon Hose

[Model Number: E-PFN-(I.D.)]

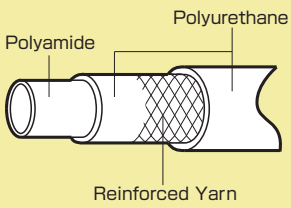
Chemical Paint Air

Applications • Fluids

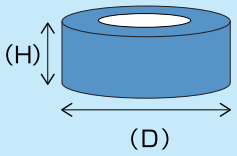


- For Manual Painting such as Automobiles, Motorcycles, and Auto Parts
- For Manufacturing Equipment Pipes of Solvents and Paints

〔Materials / Structure〕



〔Packing Dimension〕



Standard • Packing Information

Model Number	Inch (Inside Diamater) (*1)	I.D. × O.D.	Working Pressure MPa		Minimum Bend Radius at 20℃	Temperature Range	Standard Length	Product Weight	Color	Packing Dimension(*2)			
										Packing	Diameter (D)	Height (H)	Weight/roll
		mm	at 20℃	at 60℃	mm	℃	m	kg/roll			cm	cm	kg/roll
E-PFN-6.5	1/4	6.5 × 9.5	0 ~ 1.5	0 ~ 0.7	50	− 20 ~ 60	20	0.91	Clear+ Blue Line	Film Wrapping	34	5	0.91
							100	4.53		Paper Bobbin	38.5	15	5.45
E-PFN-8.9	11/32	8.9 ×12.1			80		20	1.36		Film Wrapping	34	7.5	1.36
							100	6.79		Paper Bobbin	46	16	7.97

*1: Please note that inch size is approximate, which is not equal to milliunit.
*2: "Diameter (D)" × "Height (H)" means "External Dimensions of Cardboard Box (D)" × "Height (H)."

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ISO 9001:2008
ISO 14001:2004

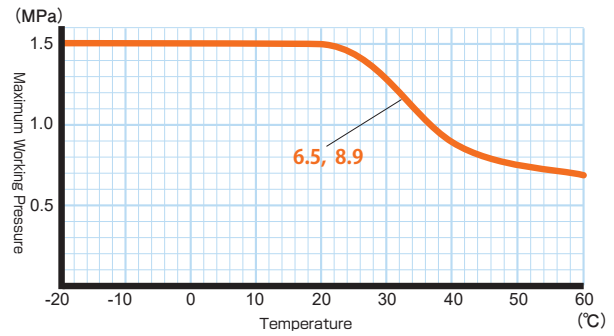
Characteristics and Functions

Non-PVC | Chemical Resistance | Solvent Resistance | Pressure-Proof | Transparency

- **Solvent Resistance**···Since the inner layer is made of Nylon resin, it shows greater levels of solvent resistance against paints, organic solvents, thinner, and so on.
- **Easy to Cut**···Since we print the cut mark on the hose every meter, it is easy to cut the length you would like to.
- **Flexibility**···Due to the laminated structure, compared with the nylon single-layer tubing, E-PFN is superior in flexibility, resulting in kink-resistance.
- **Transparency**···E-PFN enables you to check the fluid very easily.
- **Green Procurement**···E-PFN is compliant with RoHS2 requirements.
- **Original Fittings**···By using our original fittings, you can avoid accidents which are caused by incorrect choices of hose and fittings.

Technical Information

E-PFN: Relationship between Working Temperature and Maximum Working Pressure



※ The above graph is the value when our fittings are used.

- We can manufacture sizes, standard lengths, and color which are not listed on the catalog as made-to-order products. If you are interested in your original hoses which are tailored to your needs, do not hesitate to contact us.
- Please do not use the joints to seal an outer surface of the hose, which results in the bursting and coming off from the hose.
- Due to the multi-layer structure, even though the material of the inner layer stands proof against chemical substances, depending on the using conditions, fluids may leak to the middle and outer layers, leading to swelling, leakage, changing colors, and bursting.

(Paint Hose Series/Data of Soaking into Paint)

Test Procedure

Pieces of dumbbell (inner layer of the Solvent Transfer Series) are soaked into respective types of paint in order to determine the post-soaking tensile strength and calculate its tensile strength in the formula below.

Tensile Strength(%)= (Tensile Strength After Soaking / Tensile Strength Before Soaking) X 100

Soaking Time: 50 days (1,200 hours)

Material for Inner Layer

Nylon Resin : Paint Flex-Nylon (E-PFN) · Solvent Transfer Hose (E-SV)

Fluorine Resin (ETFE) : Paint Flex-Fluorine (E-PFF)

Type of Paint	Material for Inner Layer	Retention of Tensile Strength 60% 80% 100%
Clear	Nylon Resin	
	Fluorine Resin	
Solvent Methyl Based	Nylon Resin	
	Fluorine Resin	
Solvent Sulfur Monoxide Based	Nylon Resin	
	Fluorine Resin	
Water Based	Nylon Resin	
	Fluorine Resin	
Solvent Coating	Nylon Resin	
	Fluorine Resin	
Two Component Clear	Nylon Resin	
	Fluorine Resin	

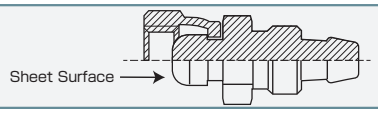
Type of Paint	Material for Inner Layer	Retention of Tensile Strength 60% 80% 100%
Two Component Fluorine Clear	Nylon Resin	
	Fluorine Resin	
Fluorine Hardener	Nylon Resin	
	Fluorine Resin	
Solvent Based	Nylon Resin	
	Fluorine Resin	
Solvent Color Based	Nylon Resin	
	Fluorine Resin	
Solvent Conductive Primer	Nylon Resin	
	Fluorine Resin	
Solvent Primer	Nylon Resin	
	Fluorine Resin	

*Low Retention of Tensile Strength means that the material swells and deteriorates against the chemical.
*This data is measured under the certain circumstances. Thus, depending on the using conditions, environments, and duration, this data might not be reliable.
*The results shown above are not guaranteed. Please make sure to check under your working conditions.

HAKKO Original Fittings

Model Number	Hose Size I.D. × O.D.	Thread	Paint Hose Series Original Fittings			
			E-FB	E-FS	E-FBG	E-FSG
						
			Brass Nickel Plate	Body : SUS304	Brass Nickel Plate with Hose Guide	Body SUS304 with Hose Guide
E-PFN-6.5	φ 6.5 × 9.5	G1/4	E-FB-6.5-G1/4	E-FS-6.5-G1/4	E-FBG-6.5-G1/4	E-FSG-6.5-G1/4
		G3/8	E-FB-6.5-G3/8	E-FS-6.5-G3/8	E-FBG-6.5-G3/8	E-FSG-6.5-G3/8
E-PFN-8.9	φ 8.9 × 12.1	G1/4	E-FB-8.9-G1/4	-	E-FBG-8.9-G1/4	-
		G3/8	E-FB-8.9-G3/8	-	E-FBG-8.9-G3/8	-

The Shape of Sheet Surface on Threaded Portion of Hose Joint



At the other side, please select parallel thread of Female Sheet.

⚠ *Due to the yarn-reinforced hose, 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.

Contact us if you have any inquiries about HAKKO products.

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