

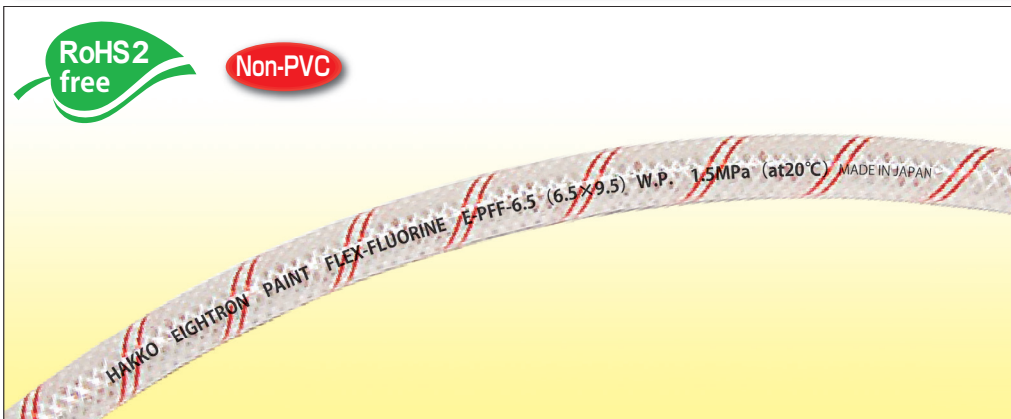
Solvent Transfer and Paint Hose Flexible Paint Hose for Water-Based Paints, Organic Solvents; Long Duration

Paint-Flex Fluorine Hose

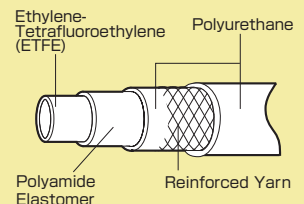
[Model Number: E-PFF-(I.D.)]



Applications • Fluids

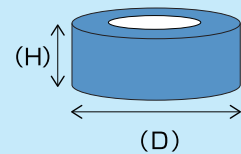


(Materials / Structure)



- For Manual Painting such as Automobiles, Motorcycles, and Auto Parts
- For Pipes at Manufacturing Plants of Solvents and Paints
- For Transferring Chemicals

(Packing Dimension)



Standard • Packing Information

Model Number	Inch (Inside Diameter) (*1)	I.D. × O.D. mm	Working Pressure MPa		Minimum Bend Radius at 20°C mm	Temperature Range °C	Standard Length m	Product Weight kg/roll	Color	Packing Dimension(*2)			
			at 20°C	at 60°C						Packing	Diameter (D) cm	Height (H) cm	Weight/roll kg/roll
E-PFF-6.5	1/4	6.5 × 9.5	0 ~ 1.5	0 ~ 0.7	50	- 20 ~ 60	20	0.96	Clear+ Red Line	Film Wrapping	34	5	0.96
							100	4.77		Paper Bobbin	38.5	15	5.69

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

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

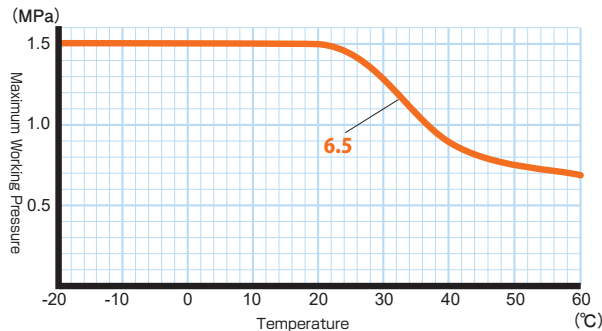
Characteristics and Functions



- Water-Based Paints**...Since the inner layer is made of ETFE fluorine resin, E-PFF is resistant to most of the paints (including water-based paints such as Amine and Alcohol.)
- Solvent Resistance**...Since the inner layer is made of ETFE fluorine resin, E-PFF is resistant to 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 conventional single-layer fluorine tubing, E-PFF is superior in flexibility, resulting in kink-resistance.
- Transparency**...E-PFF enables you to check the fluid very easily.
- Green Procurement**...E-PFF 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-PFF: 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.

$$\text{Tensile Strength(\%)} = \frac{\text{Tensile Strength After Soaking}}{\text{Tensile Strength Before Soaking}} \times 100$$

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

*Low Retention of Tensile Strength means that the material swells and deteriorates against the chemical.

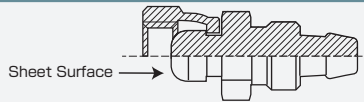
*This data is measured under the certain circumstances. Thus, depending on the using conditions, environments, and duration, this data might not be reliable.

*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
E-PFF-6.5	φ 6.5 × 9.5	G1/4 G3/8	E-FB-6.5-G1/4 E-FB-6.5-G3/8	E-FS-6.5-G1/4 E-FS-6.5-G3/8	E-FBG-6.5-G1/4 E-FBG-6.5-G3/8	E-FSG-6.5-G1/4 E-FSG-6.5-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.

HAKKO
CORPORATION

HAKKO CORPORATION

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