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(D)

Multi-Purpose/Chemical Resistant Hose

For customers who transfer UV inks, UV-based paints which become harden inside the tube or who have trouble in changing ink viscosity.

# Flexible Fluorine (ETFE) Resin Tubing BLACK Inch Type

[Model Number : E-SJ-(I.D.×O.D.)-BK]



- For Transferring Chemicals used in Semiconductor-Related Devices and Flat-Panel Display (FPD) Manufacturing Devices
- For Filling Line of UV Paints and UV-based Adhesives

## Standard • Packing Information

Model Number	I.D.	0.D.	Working Pressure MPa		Minimum Bend Radius at 20°C	Temperature Range	Standard Length	Net Weight (*1)	Color	Packing Dimension(*2)			
										1 GOIGINB	Diameter (D)	Height (H)	Gross Weight
	mm	mm	at 20°C	at 80℃	mm	°C	m	kg/Roll		Form	cm	cm	kg/Box
E -SJ-1/8" × 1/4"-BK	3.18	6.35	0~0.6		20		20	0.6		PE Bag • Paper Box	38.5	5.5	0.8
					20		100	3.0	Black	PE Bag · Paper Box	38.5	15.0	3.5
E-SJ-3/16"×1/4"-BK	4.57	6.35	0~0.5	0~0.2	45	- 20 ~ 80	20	0.4		PE Bag • Paper Box	38.5	5.5	0.6
							100	1.9		PE Bag • Paper Box	38.5	15.0	2.4
E -SJ-1/4" × 3/8"-BK	6.35	9.53	0~0.6		45		20	1.0		PE Bag · Paper Box	38.5	5.5	1.2
							100	5.1		Paper Bobbin • Paper Box	38.5	15.0	6.0

\*1: Please note that our product has the allowance, so Net Weight will vary slightly depending on the variation of the product dimension (Inside Diameter, Outside Diameter, and Length).

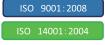
\*2: "Diameter (D)"  $\times$  "Height (H)" means "External Dimensions of Cardboard Box (D)"  $\times$  "Height (H)."



 Head Office
 Unity Forum 5F, 42-18, 1-Chome Itabashi, Itabashi-Ku, Tokyo 173-0004, Japan
 TEL (81) 3-3963-5381 FAX (81) 3-3961-4400

 Osaka Sales Office
 Akatsuki Building 7F, 13-45, Toyotsu-cho, Suita-shi, Osaka 564-0051, Japan
 TEL (81) 6-6310-6880 FAX (81) 3-3961-4400

 E-mail
 hakko@eightron.co.jp
 URL
 https://eightron.co.jp/English
 TEL (81) 6-6310-6880 FAX (81) 3-3961-4400



#### Characteristics and Functions UV Cut n Adhasi emical Resista

•UV Cut...By cutting ultraviolet, E-SJ-BK is suitable for transferring UV-based paints, adhesives, and inks.

•Chemical Resistance…Since the inner layer is made of ETFE fluorine resin, E-SJ-BK is resistant to most of the chemical substances. For more information on chemical resistance data, please refer to our corporate website.

•Flexibility…Due to the laminated structure, compared with the conventional single-layer fluorine tubing, E-SJ-BK is superior in flexibility. This improves your work efficiency.

•Hard to Break…Unlike the conventional single-layer fluorine tubing, E-SJ-BK is hard to break. (Even if it breaks, you can restore its shape to some extent)

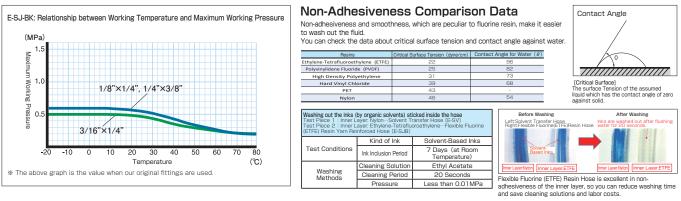
•Non-Adhesiveness...Since fluorine resin is superior in water-proof and non-adhesiveness, you can wash out the fluids very easily.

•Plasticizer-Free...F-S, I-BK does not contain plasticizer (an elution material) at all F-S, I-BK is an oil-free tubing

Non-PVC····F-SJ-BK is made of a non-PVC material

•High Purity…Fluorine resin does not contain any additives such as plasticizer, so this tubing is suitable for transferring high purity chemical fluids -Easy to Cut...Since we print the cut mark on the tubing every meter, it is easy to cut the length you would like to. •Green Procurement···E-SJ-BK is compliant with RoHS2 requirements.

**Technical Information** 



(Flexibility Comparative Data)

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

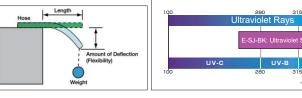
The larger the amount of deflection is, the more flexible the hose (tubing) is. The lower the minimum bend radius value is, the harder the

hose (tubing) is.

(Test Temperature:20°C) Minimum Bend Radius Amount of Deflection Test Sample (mm) (mm) 1) E-PD-4 × 6 23 (Catalog Value : 25 28 (2) E-SJ-4 × 6 23 (Catalog Value : 25) 31 ③ PTFE Tubing (4 × 6) 7 20 ④ PFATubing (4 × 6) 23 6

Test Method for Amount of Deflection (Flexibllity) 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.) \*③ PTFE Tubing and ④ PFA Tubing are not our products



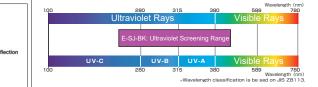
## (UV Penetration Data)

Test Sample : E-SJ- 4×6-BK

· UV Wavelength Range : 260nm 450nm

Test Machine :

Spectrophotometer U-4100 (Hitachi. Ltd) Test Result: 99% Ultraviolet Impermeability



## Cautions for using

\*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.

- \*We do not have the original fittings for "Flexible Fluorine (ETFE) Resin Tubing BLACK Inch Type."
- \*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-SJ-BK 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



#### HAKKO CORPORATION HEAD OFFICE / SALES DEPARTMENT

Unity Forum 5F, 42-18, 1-Chome Itabashi, Itabashi-Ku, Tokyo 173-0004, Japan TEL (81) 3-3963-5381 FAX (81) 3-3961-4400

### **OSAKA OFFICE**

Akatsuki Building 7F, 13-45, Toyotsu-cho, Suita-shi, Osaka 564-0051, Japan TEL (81) 6-6310-6880

## SAITAMA FACTORY · AKITA FACTORY

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