

NAFLON™ PFA-AS Tubing

The NAFLON PFA-AS Tubing is constructed with a PFA conducting stripe on both inner and outer surfaces of our PFA-HG Tubing. This tubing can prevent destruction of the tubing insulation during the transport of organic solvents, fuels, refrigerant, powders, and vapors. In addition, transparency allows checking the liquid inside the tubing.

Features

- As resistant to chemicals, heat, and weather as PFA Tubing.
- Since these tubing have an anti-electrification function, insulation damage of the tubing caused by friction electrification with fluids can be prevented.
- Transparency allows checking the liquid running inside.

Specifications

- Maximum service temperature: 260°C (same as PFA Tubing)
- Maximum usage pressure: Same as NAFLON PFA Tubing (Please refer to page 22.)
- Room-Temperature Destructive Pressure: Same as NAFLON PFA Tubing (Please refer to page 9.)
- Maximum bending radius: Same as NAFLON PFA Tubing (Please refer to page 9.)

※Since special fillers are added in the conductive PFA portion, customers are strongly advised to carry out tests and verification procedures to judge the suitability of these tubing for use in applications requiring purity.

● Volumetric Resistance

units: (Ω-cm)

Material	Volumetric Resistance
Conductive PFA	5.3×10^2
PFA-HG	$> 10^{18}$

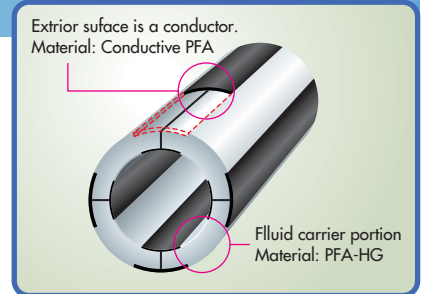
Measured by NICHIAS Corporation

Method of measurement: As per JIS K 7194

※The values given above are intended as representative values, not standard values.

■ Caution

- This product was designed in accordance with the Electrostatic Safety Guidelines (issued by the National Institute of Industrial Safety of the Ministry of Health, Labor and Welfare).
- Proper and careful examinations are recommended before use according to the application.



● Electrical resistance values

Inner Diameter × Outer Diameter	Both ends of 100mm long tubing (Ω)
4.35×6.35	1.3×10^5
6.35×9.52	0.3×10^5

Measured by NICHIAS Corporation

Method of measurement: 250V is applied to the conductive PFA portions of the inner and exterior layers at both ends using an electric resistance meter to measure the electrical resistance values.

※The values given above are intended as representative values, not standard values.

■ Usage Notes

These tubing must always be grounded when used.

Please use our conductive grounding band (sold separately) for grounding.

※Please contact us with any enquiry about product usage and selection.

※The outer diameter of the applicable tubing is up to ø19.05.



Grounding Band

■ Standard Dimensions

[Metric size]

Nominal Dimension (mm)	Outer Diameter (mm)		Wall Thickness (mm)		Length (m)	
Inner Diameter × Outer Diameter	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance
4×6	6.0	+0.15 −0.10	1.0	±0.10	10, 50, 100	+1% −0
6×8	8.0		1.0			
8×10	10.0		1.0			
10×12	12.0	+0.25 −0.10	1.0			
16×19	19.0		1.5			
22×25	25.0		1.5			

※Please enquire for information relating to delivery dates and availability.

Conductive PFA

Nominal Dimension (mm)	Inner surface				Exterior surface				Wall Thickness		Number of stripes
	Thickness (mm)		Width (mm)		Thickness (mm)		Width (mm)		Width (mm)		
	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	
4×6	0.02	+0.18 −0.015	1.4	±0.5	0.02	+0.18 −0.015	2.1	±0.5	0.02	+0.18 −0.015	4
6×8			2.1	±0.7			2.8	±0.9			
8×10			2.8	±0.9			3.5	±1.1			
10×12			1.3	±0.6			2.2	±0.8			
16×19			2.0	±0.8			3.2	±1.0			
22×25			2.7	±1.0			4.4	±1.4			8

[Inch size]

Nominal Dimension (mm)	Outer Diameter (mm)		Wall Thickness (mm)		Length (m)	
Inner Diameter × Outer Diameter	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance
3.96×6.35	6.35	+0.15 −0.10	1.20	±0.12	10, 50, 100	+1% −0
4.35×6.35	6.35		1.00	±0.10		
6.35×9.52	9.52		1.59	±0.15		
7.52×9.52	9.52	1.00	±0.10			
9.52×12.70	12.70	+0.25 −0.10	1.59	±0.15		
15.88×19.05	19.05		1.59			
22.22×25.40	25.40		1.59			

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Conductive PFA

Nominal Dimension (mm)	Inner surface				Exterior surface				Wall Thickness		Number of stripes
	Thickness (mm)		Width (mm)		Thickness (mm)		Width (mm)		Width (mm)		
	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	Standard Dimensions	Allowed Variance	
3.96×6.35	0.02	+0.18 −0.015	1.6	±0.5	0.02	+0.18 −0.015	2.3	±0.5	0.02	+0.18 −0.015	4
4.35×6.35			2.2	±0.7			3.4	±0.9			
6.35×9.52			1.2	±0.6			2.3	±0.8			
7.52×9.52			2.0	±0.8			3.2	±1.0			
9.52×12.70			2.6	±1.0			4.3	±1.4			
15.88×19.05			2.6	±1.0			4.3	±1.4			8

※Please enquire for information relating to delivery dates and availability.

※Please consult us if you have any requests for other sizes.