



※The photo is image

# Ramflon

# HS-205

## Special flexible fluorine tube

<Applications > Physical and chemical equipment, analytical equipment, chemical industry, general machinery industry, electronic equipment industry, and others

A transparent flexible fluorine tube with excellent bending properties and chemical resistance.

- **Excellent chemical resistance and heat resistance.**

Made entirely of fluoroelastomer, it has excellent chemical resistance and heat resistance on both the fluid and outer layers.

- **Bending property is top class in the series**

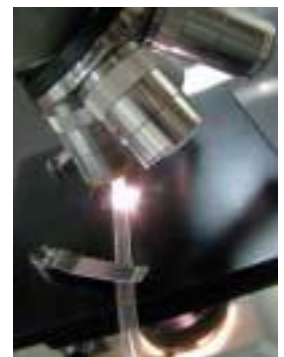
It has excellent buckling (kink) characteristics during bending and contributes to improved workability.

- **Extremely transparent.**

The fluid can be easily confirmed. Excellent optical characteristics

- **Little pollution due to elution.**

Since there is no stabilizer, cross-linking agent, or plasticizer, there is almost no risk of elution.



## Special flexible fluorine tube

## Ramflon · HS-205

### General properties of AMTERA

Items	Unit	Measurement
Density	g/cm <sup>3</sup>	1.98
Melting point	°C	130
Tensile strength	Mpa	23
Elongation	%	535
Water contact	θ	98.3

### Water permeation test (factory test)

Size ( ) (I.D x O.D)	After 150h Survival rate	After 336h
3.0 x 5.0	98.8%	97.9%

According to our measurement method

### Limit bending radius and pressure resistance

Size ( ) (I.D x O.D)	Limit bending radius (R)	Withstand voltage value (Mpa)
3.0 x 5.0	15mm	1.1
4.0 x 6.0	20mm	1.1

Bending radius limit: outside diameter retention rate of bent part%

### Continuous bending test (factory test)

Test method Tube (3.0 x 5.0) continuous bending reciprocating test with a bending tester

Results No cracks or breaks after 90 days (10,000 times)



### Chemical resistance

Item	Chemical Name	Evaluation
Acid	Hydrochloric acid (35%)	○
	Concentrated sulfuric acid (98%)	○
	Concentrated nitric acid (70%)	○
	Phosphoric acid (85%)	○
Alkali	Sodium hydroxide(30%)	○
	Sodium hypochlorite	○
Hydrocarbon (Aliphatic)	Hexane	○
	Cyclohexane	○
Aromatic	Toluene	○
	Xylene	○
Alcohol	Methanol	○
	Ethanol	○
	Isopropyl alcohol	○
Ether	Diethyl ether	○
	Tetrahydrofuran	×
Ketone	Acetone	×
	Methyl ethyl ketone	×
Carboxylic acid	Acetic acid (99%)	●
Ester	Ethyl acetate	×
	Proprietary glycol monomethyl etherate	●
	γ-butyrolactone	○
Chlorine solvent	Methylene chloride	○
	1,2-dichloroethane	○
	Trichloroethylene	○
	Tetrachlorethylene	○
Amide	Dimethylformamide	×
	Methyl pyrrolidone	×
Others	Dimethyl sulfoxide	(*1)
	ASTM#2 oil	○
	Gasoline	○

◆ Test method: After immersion in each chemical for 7 days at room temperature, change in weight was measured.

○ : 5% less

●: 5% or more and less than 10%

△: 10% or more and less than 20%

×: More than 20% or not recommended.

(\*1) The weight increase rate is excellent, but it becomes cloudy.

### Size (mm)

I.D 3.0 x 4.0 O.D  
I.D 4.0 x 6.0 O.D  
I.D 7.0 x 10.0 O.D

(Note) The products described in this material are not manufactured for use as medical devices that come into contact with living tissue. The data in this pamphlet are typical values, not guaranteed values. When selecting a tube, be sure to perform a confirmation test on the customer side. Specifications are subject to change without notice.