

HUBTRONBLACK

High-performance fluoroelastomer tube

Advanc373 / Neo Pascal

HUBTRONBlack Advance373/Neopascal

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

Multi-layer tube with UV protection function in addition to flexibility and chemical resistance

- **Excellent chemical resistance.**

It is all-fluorine and resistant to many chemicals and solvents.

- **It is very flexible (advanced).**

It contributes to improved workability

- **High heat resistance.**

It can be used in a continuous 120°C environment.

- **Less pollution due to elution.**

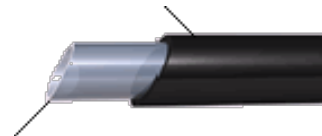
Since the inner layer contains no cross-linking agent, stabilizer, or plasticizer, there is almost no risk of elution.

- **Excellent pressure resistance and barrier performance (Neopascal)**

Excellent pressure resistance due to the special two-layer structure.

Outer layer:

black(fluorine elastomer layer)



Inner layer: transparent (fluorine resin layer)

■ General Properties

Item		Outer layer material
Specific gravity		1.89
Hardness	JIS A	67
Melting point	°C	220
Thermal decomposition start temperature	°C	380
Thermal conductivity	cal/cm · sec · °C	3.6×10 ⁻⁴
specific heat	cal/g · °C	0.3
Low temperature torsion test	T ₅₀ °C	-9
Growth	%	620
Tensile strength	MP a	15
Tear strength	kN/m	28
Compression set	50°C×24h	57
Coefficient of friction		0.6
Impact resilience		10
Volume resistivity	Ω · c m	5×10 ¹³
Breakdown voltage	kV/0.15mm	16
Permittivity	23°C 10 ³ Hz	5.9

■ Chemical resistance

Classification	Drug name	Hubtron Black		Classification	Drug name	Hubtron Black	
		Advanced373	Neo-pascal			Advanced373	Neo-pascal
Acid	Hydrochloric acid (35%)	○	○	Ketone	Acetone	×	○
	Sulfuric acid (98%)	○	○		Methyl ethyl ketone	×	○
	Nitric acid (68%)	○	○		Acetic acid (99%)	●	○
	Phosphoric acid (85%)	○	○	Carboxylic acid	Ethyl acetate	×	○
Alkali	Sodium hydroxide (30%)	○	○	ester	Propylene glycol monomethyl ether = acetate	△	○
	Sodium hypochlorite	○	○		γ-butyrolactone	○	○
Hydrocarbon	n-hexane	○	○	Chlorine solvent	Methylene chloride	●	○
(Aliphatic)	Cyclohexane	○	○		1,2-dichloroethane	○	○
	toluene	○	○		Trichlorethylene	○	○
Aromatic	Xylene	○	○		Tetrachlorethylene	○	○
Alcohol	methanol	○	○	Amide	N,N-dimethylformamide	×	○
	ethanol	○	○		1-methyl-2-pyrrolidone	×	○
	Isopropyl alcohol	○	○	Other	Dimethyl sulfoxide	○	○
	Diethyl ether	●	○		ASTM#2 oil	○	○
Ether	Tetrahydrofuran	×	●		gasoline	—	○

◆ Test method: Measure the weight change after soaking in each chemical for 7 days at room temperature.

This is an evaluation of the inner surface where all fluids come into contact. However, it varies depending on the usage conditions.

*Evaluation (weight increase rate) ○ Less than 5% △ Above 10% and less than 20% ● Above 5% and less than 10% × More than 20%