

High-performance transparent fluoroelastomer tube Thermoflon [Pascal]



High-performance transparent fluoroelastomer tube

Thermoflon [Pascal]

<Applications> Physical and chemical equipment, semiconductor industry, chemical industryElectronic equipment industry, food machinery, and others

High-end type of Thermoflon series that realizes excellent pressure resistance performance.

The chemical durability of Thermoflon [Advance] and various barrier properties are further enhanced.

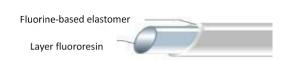
Withstand voltage resistance is one class higher

Excellent pressure resistance performance in a flexible tube without braiding.

Excellent chemical resistance

It has chemical resistance similar to that of fluororesin.

It is durable even against strong oxidizing ozone.



Excellent transparency

No reinforcing agents such as carbon are added and it is colorless and transparent.

Less contamination from leaching

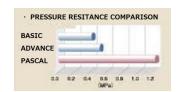
As it contains no cross-linkers, stabilizers or plasticizers, there is almost no risk of dissolution.

Excellent flexibility

It is a feature that fluororesin does not have, and it is a big attraction.

Excellent barrier properties

Among soft tubes, various barrier properties are top class.



■General properties of thermoflon

1 1	onon		
		Thermoflon	General
			fluorine
			Rubber
C:6:		1.00	tube 1.8~2.1
Specific gravity		1.89	
Hardness	JIS A	67	55~90
Melting point	°C	220	_
Thermal decomposition start temperature	°C	380	400 and more
	cal/cm	3.6×10E-4	6.0×10E-
Thermal conductivity	Sec · ℃	3.0×10E-4	
			4
Specific heat	cal/g ⋅ °C	0.3	0.3
Low temperature torsion test (T50)	℃	-9	-20~-8
Growth	%	620	600~150
Tensile test	MPa	15	7~22
Tear strength	kN/m	28	17~25
Compression set 50°C×24h	%	57	5~27
Coefficient of friction	A8	0.6	0.6~0.7
Impact resilience		10	10~15
Volume resistivity抗	% Ω - c m	5×10E13	1×10E13
Breakdown voltage	kV/0.15mm	16	9.3
Dielectric constant 23°C	kHz	5.9	13.8

■Food safety (Food Sanitation Law No. 370 test)

Test items	Thermoflon
lead	Conform
cadmium	Conform
heavy metal	Not detected
Potassium	Conform
permanganate	

■Standard size

Inner	Outer
diame	diame
ter	ter
(mm)	(mm)
1.0	3.0
2.0	4.0
3.0	5.0
4.0	6.0
5.0	7.0
6.0	8.0
7.0	10.0
8.0	11.0
9.0	12.0

Please contact us for other sizes.

■Chemical resistance

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Drug name	Evaluati on	薬品名	評価		
<acid></acid>	<acid></acid>		〈ケトン〉		
Hydrochloric acid (35%)	0	アセトン	•		
Sulfuric acid (98%)	0	メチルエチルケトン	•		
Nitric acid (70%)	0	〈カルボン 酸〉			
Phosphoric acid(85%)	0	酢酸 (氷酢酸)	0		
<alkali>⟩</alkali>		〈エステル〉			
Sodium hydroxide(30)	0	酢酸エチル	•		
sodium hypochlorite	0	プ゜ロヒ゜ レンク゛リコール			
<hydrocarb on="">></hydrocarb>		モノメチルエーテル=アセテート	0		
n-hexane	0	γ-ブチロラクトン	0		
Cyclohexane	0	〈塩素系溶 剤〉			
< <aromatic></aromatic>		メチレンクロライド	0		
toluene	0	1,2-ジクロロエタン	0		
Xylene	0	トリクロロエチレン	0		
<alcohol></alcohol>		テトラクロロエチレン	0		
methanol	0	<アミド>			
Ethyl alcohol	0	N,N-ジメチルホルムアミ ド	•		
Isopropyl alcohol	0	1-メチル-2-ピロリドン	0		
<ether></ether>		<その他>			
Diethyl ether	0	ジメチルスルホキシド	0		
Tetrahydrofuran	•	ASTM#2 oil	0		
		ガソリン	0		

- \cdot Test method: Measure the weight change after soaking in each chemical for 7 days at room temperature.
- Evaluation of the inner surface where all fluids come into contact. However, it may change depending on the usage conditions.
- * Weight increase rate
 - O Less than 5
 - Above 5 and less than 10
 - △ Above 10 and less than 20
 - × More than 20 or not recommended
- **The data described in this catalog are typical values, not guaranteed values.

Be sure to perform a confirmation test on the customer side when selecting tubes.

*The products described in this catalog are not manufactured for use in medical applications that come into contact with living tissues.

