

MEDICAL-FEP-TUBE

TECHNICAL
DATASHEET

FEP /PFA tubing

■ Property

- High grade of transparency
- Good surface lubricity
- Biocompatibility
- Good dielectric insulation performance
- Good chemical resistance
- Good non-stick
- Good weatherability flame resistance

■ Type

- FEP Tubing:Max. operating Temp. 392°F
- PFA Tubing:Max. operating Temp. 500°F

■ Size

- ID:0.04~2.0in

The size of OD and THK according to manufacturing and the actual demands of customers.

Polyperfluoroethylene (FEP, F46) transparent tube

FEP transparent tube

use

Liquid crystal manufacturing device

Single-end light-emitting single-core optical fiber tube

Heat exchanger, steam piping

High-purity reagent delivery tube

Various corrosive media (harsh solvents) pipelines

Various frequency wire and cable sheaths, slot insulation tubes

Slot insulation tube for submersible motor

Air conditioning wiring harness assembly tube

All-inclusive Fluoroplastic O-ring Seal Tube

Use characteristics

High and low temperature resistance: -200--200 °C

Non-sticky, fight water, fight oil

Electrical reliability, high insulation

The dielectric constant viscosity at high and low temperatures of 60HZ-60MHZ is 2.1. Even if the



For more information, visit our website. Xinray Electronic Material Co. Ltd

<https://heatshrinktubes.net> , <https://medicalptfe.com>

Copyright (C) Xinray Electronic Material Co. Ltd., 2021

surface is damaged by diving, no conductive tracks will be produced.

Volume resistance > 1018ΩM, surface resistance > 2 * 1013ΩM, arc resistance > 165 seconds without leakage

Corrosion resistance

Only elemental fluorine at high temperatures, alkali metals work with it, and it has no effect on all other concentrated and dilute inorganic organic acids, alkalis, and esters

Low water absorption: low water absorption < 0.01%

Non-toxic: physiologically inert

Non-combustibility: It will not burn in the air. (Oxygen index > 95VOL.%)

High transparency: lowest refractive index of all plastics

Weather resistance: long-term exposure to ozone and sunlight

Easy to add two properties: self-sealing, self-welding, flanging, and coil-to-pipe

Specification

External diameter* internal diameter	maximum length (m)	external diameter*internal diameter (mm)	maximum length (m)
φ2*φ1.6	300	φ16*φ13	30
φ3*φ2.2	250	φ16*φ14	30
φ4*φ3.2	200	φ20*φ16	20
φ5*φ4	200	φ20*φ18	20
φ6*φ3	200	φ25*φ21	20
φ6*φ4	200	φ25*φ22	20
φ6*φ5	200	φ32*φ28	6
φ8*φ6	50	φ32*φ29	6
φ8*φ7	50	φ36*φ32	6
φ10*φ7	50	φ36*φ30	6
φ10*φ8	50	φ40*φ34	6
φ10*φ9	50	φ40*φ36	6
φ12*φ10	50	φ50*φ46	6
φ12*φ11	50	φ60*φ54	6
φ16*φ12	30	φ80*φ70	6

Polyperfluoroethylene (F46, FEP) heat shrinkable tube

FEP shrink tube

use

Office machinery

Paper making machinery

Printing and Dyeing Machinery

Printing machine

Insulation sheath \ main insulation of motor rotor \ water treatment \ magma sample preparation in oilfield and other industries

Use characteristics

High and low temperature resistance: -200--200 °C

Non-sticky, fight water, fight oil: water contact angle $\theta = 114$

Non-combustibility: Does not burn in air (oxygen index > 95VOL%)

Corrosion resistance: only elemental fluorine at high temperatures, alkali metals work with it, and it has no effect on all other concentrated and dilute inorganic organic acids, alkalis, and esters

Electrical reliability, high insulation: 60HZ-60MHZ dielectric constant viscosity at high and low temperatures are 2.1. Even if the surface is damaged by diving, no conductive tracks will be produced.

Volume resistance > 1018ΩM, surface resistance > 1013Ω, arc resistance > 165 seconds without leakage

Low friction: coefficient of dynamic friction 0.2-0.3

internal diameter pre-shrink (MM)	internal diameter post-shrink (MM)	wall thickness post-shrink	length (M)
3.8	2.7	0.2-0.25	1
4.5	3.3	0.2-0.25	1
5.5	4.3	0.2-0.25	1
7.0	5.1	0.2-0.35	1
7.9	6.0	0.2-0.35	1
10.6	7.4	0.3-0.45	1
12.5	8.8	0.3-0.45	1
14.5	10.7	0.3	1
17.3	12.8	0.4	1
19	16.5	0.5	2
21	18.5	0.5	2
24	19.5	0.5	2
26	21.5	0.5	2

30	24	0.5	2
33	27	0.5	2

internal diameter pre-shrink (MM)	internal diameter post-shrink (MM)	wall thickness post-shrink	length (M)
36	28.5	0.5	2
43	34	0.5	2
52	40	0.5	2
57	49	0.5	2
63	50	0.5	2
67	53	0.5	2
76	61	0.5	2
82	64	0.5	2
91	73	0.5	2
98	82	0.5	2
106	84	0.6	2
110	86	0.6	2
118	96	0.6	2
136	103	0.6	2
156	125	0.6	3