Shenzhen Teflon New Material Technology Co., Ltd

Introduction of Shenzhen Teflon New Material Technology Co., Ltd. andOur Raw Materials

Dear Sir/Madam

We would like to introduce Shenzhen Teflon New Material Technology Co., Ltd., a leading supplier of high-quality fluoropolymer raw materials, with over 20 years of experience. We specialize in PTFE, FEP, PFA, PCTFE, PVDF, ETFE, and FKM materials, which are widely used in industries requiring high chemical resistance and electrical insulation.

- **PTFE:** Granules, powder, sheets, rods, and tubes
- **FEP:** Granules, powder, and films for coatings and insulation
- **PFA:** Granules and powders for high-temperature applications
- **PCTFE:** Films, sheets, and rods for seals and insulation
- **PVDF:** Granules and sheets for chemical and electrical applications
- **ETFE:** Films and coatings for high-strength, corrosion-resistant uses
- **FKM:** O-rings, gaskets, and seals for high-performance sealing

We supply raw materials to a variety of industries, including chemical, pharmaceutical, automotive, electronics, oil & gas, and packaging.
We would be happy to provide a detailed quotation based on your requirements and look forward to the opportunity to establish a business relationship with your company.

Thank you for your time, and we look forward to hearing from you.

Best regards
Mr. Henry Wu
Shenzhen Teflon New Material Technology Co., Ltd

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Part 1:

FEP ,PTFE, PFA, ETFE, PVDF,PCTFE RAW Materials

Comparison of Properties and Applications of Fluoropolymer Raw Materials (PTFE, ETFE, FEP, PFA, PVDF, PCTFE)

Property	PTFE	ETFE	FEP	PFA	PVDF	PCTFE
Temperature Resistance	-200°C to 260°C	-200°C to 150°C	-200°C to 200°C	-200°C to 260°C	-40°C to 150°C	-200°C to 150°C
Chemical Resistance	Excellent	Outstanding	Excellent	Excellent	Good	Excellent
Wear Resistance	Good	Outstanding	Good	Good	Moderate	Excellent
Melting Point	327°C	260°C	260°C	305°C	177°C	220°C
Processing Methods	Compression, Extrusion, Molding	Molding, Extrusion	Extrusion, Compression	Extrusion, Compression	Extrusion, Injection Molding	Extrusion, Compression
Mechanical Strength	Moderate	High	High	High	High	High
Electrical Insulation	Excellent	Good	Excellent	Excellent	Good	Excellent
Transparency	Opaque	Transparent	Transparent	Transparent	Translucent	Opaque
Applications	Chemical, Electronics, Medical	Structural Components, Membrane Materials	Chemical, Cable Insulation	Chemical, Medical, Food	Chemical, Electronics, Construction	Chemical, Electronics, Aerospace

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Notes:

- **FEP and PFA:** These two fluoroplastics have similar chemical and thermal stability, commonly used for cable insulation, coatings, and electrical applications.
- **PTFE:** The most widely used fluoroplastic, known for its excellent chemical resistance and high-temperature performance, extensively used in chemical and mechanical industries.
- **ETFE:** Known for good weather resistance and mechanical properties, ideal for high-strength, impact-resistant applications, such as structural components and membrane materials.
- **PVDF:** Often used in electrical, chemical, and medical industries, with good processability and corrosion resistance, commonly found in cables, pipes, and medical equipment.
- **PCTFE:** Known for low water absorption and excellent gas sealing properties, commonly used in chemical, electronic, and aerospace applications.

Pellets Resin **Power** **Dispersion**

PART2:

Product Offerings:

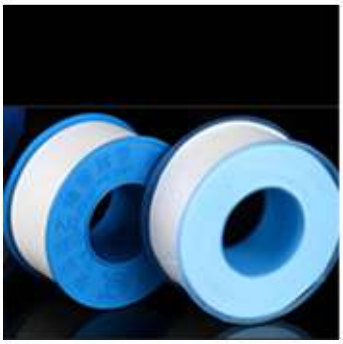
In addition to providing high-quality raw materials, we also offer a wide range of finished products made from these fluoropolymers, including:

Sheet
(PTFE/PVDF/FEP)

Rod
(PTFE/PVDF/PFA/PVDF)

Tube
(PTFE/PFA/FEP/PCTFE)

Gaskets
(PTFE/EPTFE)



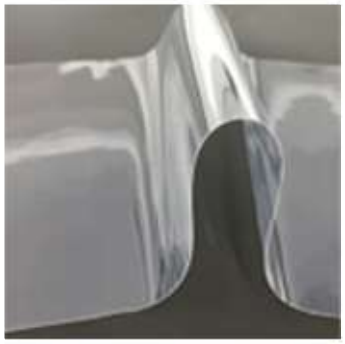
PTFEtape

pipe liners(ptfe/pfa)

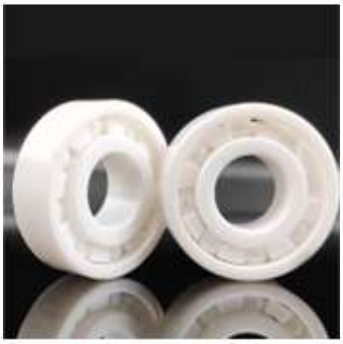
PTFE filter bag

Wire(FEP/PTFE/ETFE)

Coating(PTFE/PFA/FEP)



FEP FILM



Teflon Bearing

teflon scrap

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PTFE TUBE

Product Description: Hoses made of PTFE raw materials have many excellent properties

- Weather resistance, corrosion resistance, and not easy to age
- Low surface friction coefficient and strong anti-adhesion
- Low chemical activity and resistant to various chemicals
- Excellent electrical properties
- High and low temperature resistance (-180 ~+260)
- Color: milky white

Application areas:

- Products are widely used in the aerospace industry
- Semiconductor, solar energy industry
- New energy industry
- Oil and gas industry
- Chemical industry
- Food and beverage industry
- Machinery industry
- Automobile and medical industry

Specifications:

Type	OD (mm)	ID (mm)	Wall Thickness (mm)	Length (mm)
Compression Molded Tubes	12–950	6–700	≥5 (Customizable)	20–4000
Extruded Tubes	10–445	2–10	2–10	20–4000
Ram Extruded Tubes	0.3–40	0.1–5.0	0.1–5.0	20–4000

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PFA tube

Product Description:

PFA (Perfluoroalkoxy) is a soluble polytetrafluoroethylene copolymer made by combining tetrafluoroethylene with perfluoropropyl vinyl ether. It retains PTFE's properties but is easier to process




Application areas:

- **Semiconductor:** High-purity chemical transport (e.g., etchants)
- **Chemical Industry:** Corrosive fluid pipelines and reactor linings
- **Medical:** Biocompatible catheters and drug delivery systems
- **od Processing:** Hygienic fluid transfer with easy cleaning
- **Electronics:** Insulation for high-temperature cables

Specifications:

PFA Extruded Tube Specifications

Metric (mm)	Inch Equivalents
2×4, 3×5, 4×6	1/8" (1.6×3.2)
6×8, 8×10, 10×12	1/4" (3.96×6.35)
12×14, 16×18	1/2" (9.5×12.7)
Custom sizes: 0.5–200mm ID, 0.12–3mm wall thickness	

PFA Moulded Tube Specifications

OD / mm	Length/ mm	(Note)
30–400	≤200	*Special sizes can be customized*

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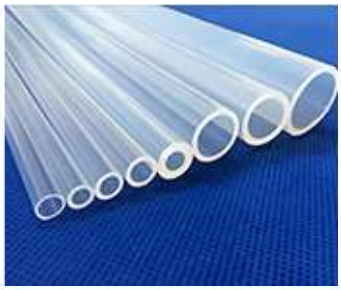
FEPtube

Product Description:

FEP (Fluorinated Ethylene Propylene) tubing is a transparent fluoropolymer tube made from a copolymer of tetrafluoroethylene and hexafluoropropylene, offering exceptional chemical resistance (withstands acids, bases, and solvents) and a wide temperature range (-80°C to +200°C)
Its smooth surface, electrical insulation, and biocompatibility make it ideal for semiconductor manufacturing, medical devices, and corrosive fluid transport.



Application areas:

- Semiconductor Manufacturing
- Medical Devices
- Chemical Industry
- Electronics & Electrical Engineering
- Food & Pharmaceutical
- Aerospace & Automotive
- New Energy & Environmental Tech

Specifications:

FEP Moulded Tube Specifications

OD / mm	Length/ mm	(Note)
30–400	≤200	*Special sizes can be customized*

FEP Extruded Tube Specifications

Metric (mm)	Inch Equivalents
2×4, 3×5, 4×6	1/8" (1.6×3.2)
6×8, 8×10, 10×12	1/4" (3.96×6.35)
12×14, 16×18	1/2" (9.5×12.7)
Custom sizes: 0.5–100mm ID, 0.12–6mm wall thickness	

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Heat Shrink Tubing

FEP Heat Shrink Tubing:

- **Medical:** Catheters, endoscope sheaths, hemodialysis lines (biocompatibility + sterilizability).
- **Electronics:** High-frequency cable insulation, circuit board protection (transparency + arc resistance).

PTFE Heat Shrink Tubing:

- **Aerospace:** Engine wiring harnesses, hydraulic system seals (withstands 260°C).
- **Automotive:** Fuel line sealing, sensor protection (oil resistance + anti-aging).

PFA Heat Shrink Tubing:

- **Semiconductor:** High-purity PFA tubes for etchants, CVD gas delivery.
- **Food/Pharma:** Sterile liquid transfer pipelines (FDA/USP Class VI certified).




Specifications:

Key Parameters

- **Outer Diameter (Before Shrinking):** 1.5–12.0 mm
- **Applications:** Electronic wiring harnesses, small connectors, industrial equipment protection.

Inner Diameter Changes

OD (mm)	Min. ID Before Shrinking (mm)	Max. ID After Shrinking (mm)	Shrinkage Rate
1.5	1.52	1.00	~34%
12.0	11.90	8.70	~27%

Wall Thickness & Packaging

- **Wall Thickness After Shrinking:**
  - For OD ≤5.0 mm: 0.30±0.05 mm
  - For OD ≥6.0 mm: 0.38±0.10 mm
- **Standard Packaging: 1.2 meters per piece.**

* Note: Specifications and dimensions are customized according to customer requirements

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PCTFE

Product Description:

PCTFE (Polychlorotrifluoroethylene) resin is a high-performance fluoropolymer known for its exceptional moisture barrier properties, ultra-low gas permeability, and excellent clarity. It offers outstanding chemical resistance, dimensional stability, and low outgassing characteristics, making it ideal for precision molding applications. With a continuous service temperature range from -200°C to +150°C, PCTFE resin is widely used in critical environments where stability and purity are essential. Its non-flammable, non-toxic nature also complies with demanding safety standards such as FDA and ASTM.




PCTFE Product Standard Specifications:

PCTFE Tube

- Standard length: ≤160 mm
- Outer diameter range: 30 mm – 645 mm
- Inner diameter range: 16 mm – 608 mm

PCTFE Rod

- Small diameters (3.0 – 5.0 mm): 1000 mm only
- Medium diameters (6.0 – 25.0 mm): 200 mm and 1000 mm
- Large diameters (30.0 – 50.0 mm): 100 mm to 500 mm (customizable) and 1000 mm

PCTFE sheet

- Thickness: 3 mm – 50 mm
- Length: 200 mm – 500 mm
- Width: 120 mm – 500 mm
- Color: Typically natural translucent (off-white)
- Surface Finish: Smooth

Other dimensions can be customized upon request.

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