

PTFE is a synthetic fluoropolymer that is used in various applications due to its unique properties, such as chemical resistance, high-temperature tolerance, and non-stick properties. PTFE is available in different forms, including granular, fine powder, and dispersion.

Product Overview

Product: PTFE Fine Powder Resin (For Fiber) PF-F7 has excellent heat resistance, electrical insulation, and chemical permeability resistance.

Typical Applications: It is mainly used as raw material for making long fibers of filter material or filter membrane.

Availability: It is packed in a sealed PVC bag, and loaded in water content proof paper barrel. The net weight is (20±0.1) kg per barrel.

TYPICAL PROPERTIES OF PTFE Fine Powder Resin (For Fiber) PF-F7 (Data not for specification purposes)

Properties	Test Method	Unit	PF-F7
Appearance			White loose powder, no impurities
Tensile Strength, MPa ≥	GB/T 1040.0. HG/T 2902	MPa ≥	28
Elongation at Break, % ≥	GB/T 1040.0. HG/T 2902	% ≥	300
Moisture Content, % ≤	Infrared Moisture Analyzer	% ≤	0.03
Bulk Density, g/L		g/L	475±100
Average Particle Size, μm	HG/T 2901	μm	650±250
Standard Relative Density			2.145-2.165
Melting Point, °C	HG/T 2902	°C	327±5
Thermal Instability Index, ≤		≤	50
Extrusion Pressure (RR: 100:1), MPa		MPa	9.7±4.2
Extrusion Appearance			Continuous, straight, smooth

CERTIFICATION

- SGS Certification
- ROHS Certification
- REACH Certification
- SVHC Certification
- EU Approved

PRODUCT DESCRIPTION

PTFE Fine Powder Resin (For Fiber) PF-F7, is a type of polytetrafluoroethylene (PTFE) powder designed for use in the production of PTFE fibers. The powder has unique properties, including low melt viscosity, high tensile strength, and excellent dimensional stability, making it ideal for use in high-performance fabrics and industrial applications. The product is highly resistant to chemical attack and has a low coefficient of friction, ensuring consistent quality and performance.

PROCESSING

PTFE Fine Powder Resin (For Fiber) PF-F7 is produced through a suspension polymerization process. In this process, PTFE resin is suspended in a liquid and then subjected to a high-energy shearing process. This causes the resin particles to break down into much smaller particles, resulting in a fine powder. The powder is then dried and packaged for use in various applications.

STORAGE AND HANDLING

Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, and prevent solarization. It should stock in a clean, cool, and dry warehouse, to prevent agglomeration and contamination.

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