

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 PF-F has excellent heat resistance, electrical insulation, and chemical permeability resistance.

**Typical Applications:** It is typically used to make an extruded tube, rod, tensile film, seal tape, etc.

**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 PF-F

(Data not for specification purposes)

Properties	Test Method	Unit	PF-F
Appearance			White loose powder, no impurities
Tensile Strength, MPa $\geq$	ASTM D4895	MPa $\geq$	28.0
Elongation at Break, % $\geq$	ASTM D4895	% $\geq$	350
Moisture content, % $\leq$	ASTM D4895	% $\leq$	0.030
Bulk Density, g/L	ASTM D4895	g/L	475±100
Average Particle Size, $\mu\text{m}$	ASTM D4895	$\mu\text{m}$	650±250
Standard Relative Density	ASTM D4895		2.140-2.190
Melting Point, °C		°C	327±5
Thermal Instability Index, $\leq$	ASTM D4895	$\leq$	50
Extrusion Pressure (RR 100:1) MPa	ASTM D4895	(RR 100:1) MPa	5.5-14.0
Extrusion Appearance	ASTM D4895		Continuous, straight, smooth ring

## CERTIFICATION

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

## PRODUCT DESCRIPTION

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PTFE Fine Powder Resin PF-F is a high-quality product made of polytetrafluoroethylene (PTFE) material. It has excellent chemical and thermal resistance properties, making it suitable for use in various forms such as films, tubes, and molded parts. It is used in a wide range of applications, including wire and cable insulation, gaskets, seals, and bearings, as well as cookware and bakeware.

## PROCESSING

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PF-F 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

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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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