

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 Molding Free Flowing Powder PF-FF has excellent heat resistance, electrical insulation, and chemical permeability resistance.

Typical Applications: It is mainly used to make molding rods, tubes, and plates, suitable for automatic extrusion.

Availability: It is packed in a sealed PVC bag, and loaded in water content proof paper barrel. The net weight is (25±0.1) kg per barrel.

TYPICAL PROPERTIES OF PTFE Molding Free Flowing Powder PF-FF (Data not for specification purposes)

Properties	Test Method	Unit	PF-FF
Appearance			Clean and white, uniform, and no impurities
Tensile Strength, MPa ≥	GB/T 1040.0. HG/T 2902	MPa ≥	30±3
Elongation at Break, % ≥	GB/T 1040.0. HG/T 2902	% ≥	350±50
Bulk Density, g/L		g/L	800±30
Average Particle Size, μm	HG/T 2901	μm	450±50
Hardness		Shore D	54-56
Flow-Ability		Sec/50g	2.0
Shrinkage		%	1.9-3.3
Pressure		Kg/cm ²	350
Max Sintering Tem		°C	380

CERTIFICATION

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

PRODUCT DESCRIPTION

PTFE Molding Free Flowing Powder PF-FF, is a high-quality resin that offers excellent thermal stability, chemical resistance, and lubricity. Made using advanced technology, this eco-friendly alternative to PTFE is easy to process and mold has a low coefficient of friction, and is highly resistant to chemicals. It is ideal for use in the production of pipes, valves, bearings, gears, and seals.

PROCESSING

PTFE Molding Free Flowing Powder PF-FF is processed through a pre-sintering method, which involves heating the resin to a temperature just below its melting point. The pre-sintered resin is then cooled and ground into a powder, which can be easily molded into the desired shape. This process creates a resin with improved flow properties, making it easier to process and mold into complex shapes.

STORAGE AND HANDLING

PTFE is packed in double layer PVC bags inside and in hard circular barrels outside. 20kg/barrels, on the barrel, there should be attached label and quality certificate. The product are transported according to non-dangerous products. Heat, moisture, freezing and strong shock should be avoided during transportation. Over-bu mpiness and compression is adapt to make the resin bind together.

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