

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 Free Flow Resin PF-M1 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 Free Flow Resin PF-M1 (Data not for specification purposes)

Properties	Test Method	Unit	PF-M1
Appearance			Clean and white, uniform, and no impurities
Tensile Strength, MPa ≥	GB/T 1040.0. HG/T 2902	MPa ≥	25.5
Elongation at Break, % ≥	GB/T 1040.0. HG/T 2902	% ≥	290
Bulk Density, g/L		g/L	750±150
Average Particle Size, μm	HG/T 2901	μm	200~400
Moisture Content, % ≤	Infrared Moisture analyzer	% ≤	0
Melting Point, °C	HG/T 2902	°C	327±5
Standard Relative Density, ≤		≤	2.130~2.180
Thermal Instability Index, ≤		≤	30
Natural Slope			30°

CERTIFICATION

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

PRODUCT DESCRIPTION

PTFE Free Flow Resin PF-M1, 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 Free Flow Resin PF-M1 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

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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