

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-F03S has excellent heat resistance, electrical insulation, and chemical permeability resistance.

**Typical Applications:** It is designed for processing at low reduction ratios. Particularly suitable for production of thick wall tube and thin rod.

**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-F03S (Data not for specification purposes)

| Properties                           | Unit           | PF-F03S                           |
|--------------------------------------|----------------|-----------------------------------|
| Appearance                           |                | White loose powder, no impurities |
| Tensile Strength, MPa $\geq$         | MPa $\geq$     | 24                                |
| Elongation at Break, % $\geq$        | % $\geq$       | 300                               |
| Moisture content, % $\leq$           | % $\leq$       | 0.030                             |
| Bulk Density, g/L                    | g/L            | 475±100                           |
| Average Particle Size, $\mu\text{m}$ | $\mu\text{m}$  | 400-575                           |
| Extrusion Pressure (RR 100:1) MPa    | (RR 100:1) MPa | 24.0-45.0 (400:1)                 |

## CERTIFICATION

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

## PRODUCT DESCRIPTION

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PTFE Fine Powder Resin PF-F03S 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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PTFE Fine Powder Resin PF-F03S 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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