PTFE Micro-powder is part of fluoropolymers, this product is a white, free-flowing polytetrafluoroethylene (PTFE) resin with low molecular weight, it's made from PTFE resin by special processing technology.

Applications: It's suitable for paint, printing ink, engineering plastics, rubber elastomers, lubricating oil, as well as friction material, as an additive in other materials and systems.

Packing: Environment-friendly paper drum packing lined with PVC bag; Net weight 5 kg/Drum;

TYPICAL PROPERTIES OF PTFE Micro-powder

Item	PF-501	PF-502
Whiteness,% ≥	95	95
Average particle size D50, μm	2-5	2-5
D10, μm	2	2
D90, μm	10	10
Maximum particle size, μm ≤	15	15
Bulk density,g/l	200-400	200-400
Melting point,°C	325± 5	327± 5
MFR, g/ 10 min	1-3	4-8
specific surface area ㎡/g	8-12	14-18

PTFE Micropowder In Engineering Plastic

PTFE micropowder significantly enhances the lubricity and wear resistance of engineering plastics, effectively reducing friction. Across various plastics like POM, PA, PC, PI, PEEK, PET, PPS, PS, and other resin materials, GNM's PTFE micropowder significantly augments their tribological properties. This enhancement enables these materials to replace lubricated metal components, offering superior wear and corrosion resistance.

PTFE Micropowder In Elastomers

PTFE micropowder, when added to elastomers, significantly enhances the overall performance of parts' surfaces. Surface performance encompasses demolding, friction, wear, and lubrication, while overall performance factors in tear strength, wear resistance, and flex life. Some high-performance materials, like silicone rubber and fluororubber, exhibit poor high-temperature mechanical performance, making them unsuitable for processing. For instance, certain elastomers are prone to tearing during demolding at temperatures between 177-191°C. Adding Goree PTFE micropowder can reduce part adhesion or tearing damage during demolding. PTFE fluorine additives increase elastomer tear strength at both room temperature and 177°C.

PTFE micropowder can be mixed and blended into elastomers using conventional methods such as internal mixers or twin-roll mills. High concentrations (up to 30-50% of elastomer mass) of PTFE micropowder do not compromise the elastomer's elasticity.

STORAGE AND HANDLING

Keep away from light and humidity below 60℃, and store in a ventilated and dry place, In the processing of polytetrafluoroethylene powder, the highest temperature <400℃.

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