HAIFLON® PTFE Fine Powder SF-M1

CAS No.: 9002-84-0

Haiflon® PTFE Fine Powder SF-M1 is a virgin PTFE fine powder resin with ultra-high molecular weight produced by dispersion polymerization. It belongs to the SF-M series designed for low to medium reduction ratios (10:1 – 300:1) and is particularly suitable for the production of biaxially stretched microporous membranes.

Product Features

- Ultra-high molecular weight virgin PTFE fine powder, free of PFOA
- Designed for low to medium reduction ratios of 10:1 – 300:1
- Ideal node-and-fibril structure formation for membrane stretching
- Excellent mechanical strength of stretched membrane
- Excellent chemical resistance and weather resistance
- Uniform particle size distribution for consistent membrane pore structure

Typical Physical Properties

Item	Specification — SF-M1
Bulk density, g/l	500
Average particle size, D50 µm	660
Moisture content, %	0.02
Standard specific gravity (SSG)	2.17
Tensile strength, MPa	35
Elongation at break, %	400
Reduction ratio (RR)	10 – 300 : 1

Applications

- Biaxially stretched microporous membrane
- Waterproof and breathable films
- Filtration membranes and battery separator applications

Comparable Grades

Chemours (DuPont) Teflon™ 669X / 650XT, Daikin F-301

Safety Precautions for Using PTFE Fine Powder

- The work area should be kept well-ventilated, as toxic gases such as HF and COF2 may be liberated during hot processing. Acid gases evolved during incineration of the polymer must be eliminated by alkaline scrubbing before emission.
- Avoid breathing fumes emitted during processing and wear the necessary personal protective equipment.
- Smoking in the working area is prohibited, to avoid inhalation of toxic gases liberated from smoking tobacco contaminated with PTFE powder.
- Avoid inhalation of PTFE powder and contact with eyes.
- After processing, clean the face and hands thoroughly.
- Processing waste must be disposed of by qualified personnel in compliance with the waste disposal regulations of the relevant district and country.
- Before using PTFE powder, please read the safety data sheet carefully.

Storage & Handling

- The products should be stored in clean, cool, shady, draughty and dry warehouses to avoid contamination by dust and moisture.
- During transportation and storage, shearing and violent vibration must be avoided to prevent the resin from agglomeration.

Packing

- Product is packed in double layer plastic bags: the inner bag is made of polyethylene resin and the outer bag is made of polyvinyl chloride.
- The bags are packed in cardboard drums lined with moisture-proof plastic film.
- Net weight per drum is 20 kg.
- Product can also be packed according to customer's requirements.

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