

HAIFLON® PTFE Fine Powder SF-628AD

CAS No.: 9002-84-0

Haiflon® PTFE Fine Powder SF-628AD is a high molecular weight polytetrafluoroethylene fine powder resin. In flame-retardant formulations it is recommended as an anti-dripping additive; it can also act as a melt-strength additive that facilitates demanding processing techniques such as extrusion blow molding. When SF-628AD is dispersed in engineering plastics such as polycarbonate, polypropylene, polyamide, ABS, polystyrene and PBT, a microscopic node-and-fibril network forms within the polymer matrix, which strongly suppresses melt dripping and improves melt behavior.

Product Features

- ✧ High molecular weight virgin PTFE fine powder, free of PFOA
- ✧ Efficient anti-dripping additive in flame-retardant formulations
- ✧ Forms node-and-fibril network to reinforce the polymer melt
- ✧ Improves melt strength for extrusion blow molding
- ✧ Effective at low addition levels (typically 0.1 – 0.5 wt%)
- ✧ Suitable for PC, PP, PA, ABS, PS, PBT and other engineering plastics

Typical Physical Properties

Item	Specification — SF-628AD
Bulk density, g/l	375 – 575
Average particle size, D50 μm	400 – 575
Moisture content, %	≤ 0.03
Standard specific gravity (SSG)	≥ 2.20
Reduction ratio (RR)	—
Cleanliness	Excellent grade

Applications

- ✧ Anti-dripping additive for flame-retardant engineering plastics
- ✧ Melt-strength additive for extrusion blow molding
- ✧ Additive for wire, cable and electronic appliance compounds

Comparable Grades

Chemours (DuPont) Teflon™ PCO-10 series (typical)

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.