

1. Product Identification

Product Name: PTFE Suspension Molding Powder PF-S06A

Chemical Name: Polytetrafluoroethylene (PTFE)

CAS No.: 9002-84-0

Polymerization Method: Suspension Polymerization

Processing Method: Compression Molding

PF-S06A is a fine particle PTFE molding grade designed for general industrial molding applications requiring reliable mechanical strength and dielectric performance.

2. Typical Applications

- PTFE films
- Pigmented films
- Base material for free-flow PTFE resins
- General industrial molded components
- Electrical insulation parts

Final application validation remains the responsibility of the processor/end user.

3. Typical Properties Of PTFE Suspension Molding Powder PF-106 (Data not for specification purposes)

Property	Unit	Typical Value
Appearance	—	White Powder
Tensile Strength $\geq$	MPa	30
Elongation at Break $\geq$	%	300
Particle Size	μm	15 – 30
Bulk Density	g/L	300 – 450
Moisture Content $\leq$	%	0.030
Standard Specific Gravity	—	2.140 – 2.170
Dielectric Strength $\geq$	MV/m	80

4. Key Performance Characteristics

- Excellent thermal resistance (continuous use up to 260°C)
- Outstanding chemical resistance
- Good dielectric performance
- Low coefficient of friction
- Stable molding performance

5. Processing Recommendations

Recommended Processing Method: **Compression Molding**

Typical molding procedure:

- Cold preforming
- Sintering above melting temperature (~327°C)
- Controlled cooling

Processing parameters should be optimized by the converter based on final application requirements.

6. Packaging

- Double-layer polyethylene inner bag
- Rigid outer drum
- Net weight: 20 kg per drum
- Each drum supplied with batch identification and certificate of analysis

7. Storage And Handling

- Store in a clean, dry, well-ventilated warehouse
- Protect from moisture and contamination
- Avoid heavy vibration and mechanical impact during transport
- Not classified as dangerous goods under ADR, IMDG, or IATA

8. Regulatory Information (EU Compliance Statement)

- The product does not intentionally contain SVHC substances above 0.1% (w/w) as defined under REACH (EC) No 1907/2006.
- Compliant with RoHS Directive 2011/65/EU (as amended).
- Not classified as hazardous under CLP Regulation (EC) No 1272/2008.
- Safety Data Sheet available upon request.

Formal Declarations of Compliance can be provided upon request.

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