

1. Product Identification

Product Name: PTFE Suspension Molding Powder PF-S61A

Chemical Name: Polytetrafluoroethylene (PTFE)

CAS No.: 9002-84-0

Polymerization Method: Suspension Polymerization

Processing Method: Compression Molding

PF-S61A is a fine particle PTFE molding grade with high creep resistance, good weldability and low metal ion extractables, designed for demanding sealing and high-purity applications.

2. Typical Applications

- Sealing gaskets requiring high creep resistance
- High-end pump and valve linings
- Semiconductor and 5G components
- Electrical insulation parts
- General industrial molded components

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

3. Typical Properties Of PTFE Suspension Molding Powder PF-S61A (Data not for specification purposes)

Property	Unit	Typical Value
Appearance	—	White Powder
Tensile Strength $\geq$	MPa	35
Elongation at Break $\geq$	%	400
Particle Size	μm	20 – 30
Bulk Density	g/L	300 – 500
Moisture Content $\leq$	%	0.030
Standard Specific Gravity	—	2.150 – 2.180
Flex Life (0.4 mm film, 23°C) $\geq$	$\times 10^4$ cycles	200
Permanent Compression Set (23°C, 14 MPa, 24 h) $\leq$	%	5.0
Dielectric Strength $\geq$	MV/m	100

4. Key Performance Characteristics

- Excellent thermal resistance (continuous use up to 260°C)
- Outstanding chemical resistance
- High creep resistance / low permanent compression set
- Good dielectric performance
- Good weldability and low metal ion extractables

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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