1. Product Identification

Product Name: PF-S02
Chemical Name: Polytetrafluoroethylene (PTFE)
CAS No.: 9002-84-0
Polymerization Method: Suspension Polymerization
Processing Method: Compression Molding
PF-S02 is a middle-particle PTFE suspension molding grade designed for general industrial molding applications requiring stable mechanical performance and controlled thermal stability.

2. Typical Applications

Final part validation remains the responsibility of the processor.

- PTFE sheets and rods
- Molded gaskets
- Bearings
- Pre-sintered materials
- Industrial sealing components

Final product qualification remains the responsibility of the processor.

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

Property	Unit	Typical Value	Test Method
Appearance	—	White powder	Visual
Tensile Strength ≥	MPa	27	ASTM D4894
Elongation at Break ≥	%	250	ASTM D4894
Average Particle Size	μm	150 - 300	ASTM D4894
Bulk Density	g/L	500 ± 100	ASTM D4894
Moisture Content ≤	%	0.030	
Melting Point	°C	327 ± 5	
Standard Specific Gravity	g/cm³	2.120 – 2.170	ASTM D4894
Thermal Instability Index ≤		30	

4. Key Performance Characteristics

- Stable mechanical performance
- Controlled thermal stability
- Good moldability
- Excellent chemical resistance
- Continuous service temperature up to 260°C
- Suitable for medium-particle molding applications

5. Processing Recommendations

Recommended method:**Compression Molding**

Typical process steps:

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

Processing conditions should be optimized according to part geometry and final performance requirements.

6. Packaging

- Double-layer polyethylene inner bag
- Rigid outer drum
- Net weight: 25 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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