

1. Product Overview

Product Name: PTFE Molding Powder DF-S61

Polymer Type: Polytetrafluoroethylene (PTFE)

CAS No.: 9002-84-0

Polymerization Method: Suspension Polymerization

DF-161 is a fine particle PTFE molding grade designed for high-performance sealing and electrical insulation applications. It offers excellent creep resistance, mechanical strength, and dielectric properties.

2. Typical Applications

- Static and dynamic sealing gaskets
- Valve seats and pump linings
- Semiconductor components
- High-frequency and 5G insulation parts
- Molded components requiring low metal ion precipitation

3. Typical Properties Of PTFE Suspension Molding Powder PF-S61 (Data not for specification purposes)

Property	Unit	DF-S61
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
MIT Flexural Life (0.4 mm sheet, 23°C) $\geq$	10^4 cycles	200
Compression Set (23°C, 14 MPa, 24h) $\leq$	%	5.0
Dielectric Strength $\geq$	MV/m	100

4. Key Performance Characteristics

- Excellent thermal stability
- Continuous service temperature up to 260°C
- Outstanding chemical resistance
- Low creep deformation
- Superior dielectric performance
- Low coefficient of friction
- Low metal ion precipitation

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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