PEFLON

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TECHNICAL DATA

PFA PF-401

Polytetrafluoroethylene (PFA) is a thermoplastic fluoropolymer that is highly resistant to extreme temperatures and harsh chemicals. PFA is used in various industries, including chemical processing, semiconductors, automotive, and aerospace, due to its excellent chemical and thermal stability. It can be molded into complex shapes or extruded into tubing or film, making it a versatile material for industrial and commercial applications.

Product Overview

Product: Fusible PF-401 is a general-purpose fluoropolymer resin that is preferred when extended service is required in hostile environments involving chemical, thermal, and mechanical stress.

Typical Applications: It is typically used for making pipes, pumps, valves, plates, tank lining, diaphragm, joints, and bearing parts.

Availability: It is packaged in 25kg multilayer bags with an integral polyethylene liner.

TYPICAL PROPERTIES OF Fusible PF-401 (Data not for specification purposes)

Properties	Test Method	Unit	PF-401
Appearance		No impurities	Translucent particles or white powder
MFR, g/10min	ASTM D3307		0.8-3.0
Tensile Strength	ASTM D3307	MPa ≥	32
Elongation at Break	ASTM D3307	% ≥	300
Water Content	ASTM D570	% ≤	0.3
Melting Peak Temperature	ASTM D4591	℃	300-310
Standard Specific Gravity	ASTM D792		2.120~2.170

CERTIFICATION

- ROHS Certification
- REACH Certification
- PFOA-Free, PAFS Free

PROCESSING

PF-401 can be processed by conventional melt extrusion, and by injection, compression, transfer, and blow molding processes. High melt strength and heat stability permit the use of relatively large die openings and high-temperature draw-down techniques that increase production rates. Reciprocating screw injection molding machines are preferred. Corrosion-resistant metals should be used in contact with molten fluoropolymer resin. The extruder barrel should be long, relative to diameter, to provide residence time for heating the resin to approximately 390 °C (730 °F).

STORAGE AND HANDLING

The properties of PF-401 resin are not affected by storage time. This product is non-toxic, non-explosive, and non-corrosive, according to non-dangerous goods transport. It should stock in a clean, cool, and dry warehouse, to prevent agglomeration and contamination.

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