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TECHNICAL DATA PF-403

Fusible 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-403 is a medium melt flow rate fluoropolymer resin that offers increased flex life and greater resistance to environmental stress cracking.

Typical Applications: It is typically used for pipe, wire insulation layer, film, and various electronic components.

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

TYPICAL PROPERTIES OF Fusible PF-403 (Data not for specification purposes)

Properties	Test Method	Unit	PF-403
Appearance		No impurities	Translucent particles or white powder
MFR, g/10min	ASTM D3307		3.1-6.0
Tensile Strength	ASTM D3307	MPa ≥	30
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, PFAS Free

PRODUCT DESCRIPTION

Fusible PFA06 is a medium melt flow rate fluoropolymer resin available in pellet form that offers increased flex life and greater resistance to environmental stress cracking. It is used when traditional extrusion and molding processes are required for producing products with the superior properties of fluoropolymer resin. Compared to other thermoplastics, the high melt strength and thermal stability of PF-403 can be used to improve processing rates. Compared with other fluoropolymers, creep resistance at high service temperatures provides a superior balance and level of end-use properties. In a flame situation, products of PF-403 resist ignition and do not promote flame spread. When ignited by a flame from other sources, their contribution of heat is very small and added at a slow rate with very little smoke.

PROCESSING

PF-403 can be processed by conventional melt extrusion, and by injection, compression, and transfer 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-403 resin are not affected by storage time. Ambient storage conditions should be designed to avoid airborne contamination and water condensation on the resin when it is removed from containers.

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