

TECHNICAL DATA

FEP (fluorinated ethylene propylene) PF-001

FEP, or Fluorinated Ethylene Propylene, is a type of fluoropolymer that has become increasingly popular in recent years. FEP is a versatile material with a wide range of applications, including in the medical industry, aerospace, and even in the production of cookware.

Product Overview

Product: PF-001 has exceptional dielectric properties, low flammability is chemically inert, and has weatherability.

Typical Applications: It is typically used for wire and cable insulation, small tubing, and injection molded parts.

Availability: Net weight 25kg, single-layer, plastic bags.

TYPICAL PROPERTIES OF FEP PF-001 (Data not for specification purposes)

Properties	Test Method	Unit	PF-001
Melt Flow Rate	ASTM D2116	g/10 min	0.8–2.0
Specific Gravity	D792		2.14
Critical Shear Rate		1/s	22
Tensile Strength, 23 °C (73 °F)	D638	MPa	30
Elongation at Break >	D638	%	330
Impact Strength, Notched Izod, 23 °C (73 °F)	D256	kJ/m ²	No Break
Water Absorption	D570	%	< 0.01
Hardness, Shore Durometer	D2240	D2240	D56
Chemical Resistance	D543		Excellent
Melting Point	D4591/D3418	°C (°F)	260 (500)
Dissipation Factor, tg δ, 1 kHz	D150		0.00007
Relative Permittivity, 106Hz	D150		2.15

CERTIFICATION

- SGS Certification
- ROHS Certification
- REACH Certification
- SVHC Certification
- FDA Approved
- EU Approved

PRODUCT DESCRIPTION

PF-001 is a high-performance resin that offers exceptional dielectric properties, performance at temperature extremes, low flammability, chemical inertness, weatherability, and a low coefficient of friction. It is an excellent choice for demanding applications in the chemical industry and wire and cable applications that require stress crack resistance.

PROCESSING

PF-001 resin can be processed by conventional melt extrusion, and by injection, compression, and blow molding processes. For smooth feeding to extrusion equipment, it is supplied in 3 mm (0.12 in) pellets. The extruders and molding machines used for PF1126 should be constructed of high nickel alloy corrosion-resistant materials and be capable of operating at temperatures up to 400 °C (750 °F).

STORAGE AND HANDLING

The properties of Peony FEP PF-001 resins are not affected by storage time. Ambient storage conditions should be designed to avoid airborne contamination and water condensation on the resin when opening and emptying the packaging.

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