

## TECHNICAL DATA

## FEP (fluorinated ethylene propylene) PF-006

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-006 has exceptional dielectric properties, low flammability is chemically inert, and has weatherability.

*Typical Applications:* It is typically used for tubing, piping, lining, and other components for the chemical industry.

*Availability:* It is packaged in 25-kg, single-layer, plastic bags.

### TYPICAL PROPERTIES OF FEP PF-006 (Data not for specification purposes)

Properties	Test Method	Unit	PF-006
Melt Flow Rate	D2116	g/10 min	20.1–27
Specific Gravity	D792		2.12–2.17
Tensile Strength, 23 °C (73 °F)	D638	MPa	24.0
Elongation at Break >	D638	%	340
Impact Strength, Notched Izod, 23 °C (73 °F)	D256	kJ/m <sup>2</sup>	No Break
Water Absorption	D570	%	< 0.01
Hardness, Shore Durometer	D2240	D2240	D56
Chemical Resistance	D543		Excellent
Melting Point	D4591/D3418	°C (°F)	255 (591)±10
Relative Permittivity, 1 GHz	D150		2.15
volatile matter		≤%	0.01

## CERTIFICATION

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

## PRODUCT DESCRIPTION

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PF-006 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

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PF-006 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 PF1181 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

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The properties of Peony FEP PF-006 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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