PEFLON

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TECHNICAL DATA

FEP (fluorinated ethylene propylene) PF-302

Product: PF-302 has exceptional dielectric properties, low flammability is chemically inert, and has weatherability. It is a melt-processible copolymer of tetrafluoroethylene and hexafluoropropylene, without additives,

Applications: It is typically used for Tubes, piping, linings, bellows, Jackets for wire and cable applications demanding a high degree of stress crack resistance.

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

TYPICAL PROPERTIES OF FEP PF-302 (Data not for specification purposes)

Properties	Test Method	Unit	PF-302
Melt Flow Rate	ASTM D2116	g/10 min	2.1 ~ 4.0
Specific Gravity	D792		2.12-2.17
Critical Shear Rate	D638	MPa	27.0
Tensile Strength, 23 °C (73 °F) ≥	D638	%	330
Elongation at Break ≥	D256	kJ/m2	No Break
Impact Strength, Notched Izod, 23 °C (73 °F)	D570	%	< 0.01
Volatile Matter ≤	D2240	D2240	D56
Hardness, Shore Durometer	D543		Excellent
Chemical Resistance	D4591/D3418	°C (°F)	265 (505)
Melting Point	D150		2.15

CERTIFICATION

- PFOA Free, PFAS Free
- ROHS Certification
- REACH Certification
- SVHC Certification

PROCESSING

PF-302 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 PF-302 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 FEP PF-302 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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