PEFLON

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TECHNICAL DATA

FEP (fluorinated ethylene propylene) PF-305

Product: PF-305 is a melt-processible fluoroplastic resin available in pellet form. It is a copolymer of tetrafluoroethylene and hexafluoropropylene, without additives.

Applications: Small diameter, thin wall wire and cable insulation; industrial film; and intricate or thin wall parts made by injection molding.

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

TYPICAL PROPERTIES OF FEP PF-305 (Data not for specification purposes)

Properties	Test Method	Unit	PF-305
Melt Flow Rate	D2116	g/10 min	12.1-20
Specific Gravity	D 792		2.12-2.17
Tensile Strength, 23 °C (73 °F) ≥	D 638	MPa	23
Elongation at Break ≥	D 638	%	310
Impact Strength, Notched Izod, 23 °C (73 °F)	D 256	kJ/m2	No Break
Water Absorption	D570	%	< 0.01
Hardness, Shore Durometer	D2240	D2240	D55
Chemical Resistance	D543		Excellent
Melting Point	D 4591/ D 3418	°C (°F)	257 (561)±5
Relative Permittivity, 106Hz	D150		2.15
Volatile Matter ≤		%	0.01

CERTIFICATION

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

PROCESSING

PF-305 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-305 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-305 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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