

TECHNICAL DATA
PFA PF-402

PF-402 is a copolymer resin It has excellent heat resistance, chemical resistance, weather resistance, as well as excellent light transmittance, mechanical strength at high temperatures, and easy melt processing properties.

Applications such as hoses, sleeves, sheet metal valve linings, container corrugated tubes, and films.

Property	Unit	Typical Value	Test Method
General			
Appearance	-	Semitransparencygranules	ASTMD 3307
MFR	g / 10min	1.5-4.0	
Density	g / cm ³	2.12-2.17	
Bulk density	g / mL	1.10-1.40	
Mechanical			
Tensile Strength	MPa	≥22.6	ASTM D638
Ultimate Elongation	%	≥290	ASTM D638
Flexural Modulus	MPa	No Break	ASTM D790
Impact Strength (Cantilever Type) Load Deformation	N/m	No Break	ASTM D256
Creep 25°C 13.7mpa	%	2.5-3.0	
Total Deformation25°C 13.7mpa	%	8.0-9.0	-
Friction Coefficient (Static Friction Coefficient)	Coated Steel Surfaces	0.04-0.05	
Hardness	Shore Hardness	D60-D70	ASTM D895
Thermal Performance			
Melting Point	°C	295-311	DSC
Specific Heat	J/g/°C	1.05	-
Coefficient Of Heat Conduction	J·cm/s·cm ² ·°C	2.6×10 ⁻³	ASTM C177
Coefficient Of Linear Expansion	1/°C	12×10 ⁻⁵ (+20-+100°C)	ASTM D696
Limit Oxygen Index Oli	vol%	>0.95	ASTM D2863
Continuous Use Temperature	°C	<260	
Electrical			
Dielectric Constant	-	2.1	ASTM D150
Dielectric Dissipation Factor	-	<1×10 ⁻⁵	D15010 ³ Hz
	-	3×10 ⁻⁴	D15010 ⁶ Hz
Fluorine	cm ³ ·cm/cm ² ·S atm	1.4×10 ⁻⁸	-
Oxygen	cm ³ ·cm/cm ² ·S atm	4.8×10 ⁻⁸	-
Density	g/m ² 24hrs	3.1(Thickness Of Film :45μm)	-
Other			
Contact Angle	Angle	115	-
Water Absorption	%	<0.01	-

Processing: Extrusion, compression, and blow molding

Extrusion: Wires, tubes, films, and precision products can all be extruded. Extruders typically use screws with a diameter of 25-65 mm, an L/D ratio of 20-28, and a compression ratio of 2.5-3.0. The barrel and screw should be made of corrosion-resistant materials.

Finished Product Specifications	Inner Diameter: 6 mm, Outer Diameter: 8 mm, Wall Thickness: 1 mm	
Barrel Temperature (°C)	Zone 1	360
	Zone 2	375
	Zone 3	390
	Flange	395
	Die Head	395
	Screw Diameter (mm)	35
	Screw Speed (rpm):	23
	Extrusion Speed (m/min)	1.3

Packaging and Transportation: PVC bag weighs 25kg net. Transported as non-hazardous goods.

Storage and Handling:

1. Process only in well-ventilated areas;
2. Do not smoke in areas contaminated with powder/residues from these products;
3. Avoid contact with eyes;
4. After handling these products, wash exposed skin with soap and water.
5. Avoid contact with hot fluoropolymers.
6. Steam extraction equipment should be installed above the processing equipment.
7. Do not use open flames or burn any of this product in a furnace when cleaning processing equipment.
8. Since this product is intended for general industrial use, its suitability and safety for use as a raw material for medical purposes cannot be guaranteed.

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