

Resins for Critical Applications

When Failure Is Not an Option

Fluon® PFA (perfluoroalkoxy) is a melt-processible copolymer of tetrafluoroethylene and a perfluorinated vinyl ether. Fluon PFA has chemical, electrical, and thermal properties almost identical to its close chemical cousin, polytetrafluoroethylene (PTFE), yet can be processed by conventional thermoplastic molding techniques. This unique material can be used over a wide range of temperatures (-200 °C to 260 °C) and is available in pellet form.

When it comes to critical applications in aggressive environments, Fluon PFA resins are unmatched in performance whether used as a neat resin or compounded with fillers.

Features

- High resistance to heat
- Excellent chemical resistance
- Excellent dielectric properties
- Low smoke and flame characteristics, UL-94 V-0 rated
- Outstanding resistance to weather and aging
- Non-stick characteristics

Fluon PFA Grades

Property	Units	P-66P	P-63P	P-62XP	P-61XP
MFR (372 °C; 49N; ASTM D3307)	g/10 min	1 ~ 3	7 ~ 18	24~36	34~47
Specific Gravity (ASTM D792)	-	2.12	2.13	2.13	2.13
Melting Point	°C	305	305	305	305
Tensile Strength (23 °C; ASTM D638)	MPa	40	32	32	33
Elongation at Break (ASTM D638)	%	340	410	410	470

Processing Options

- Extrusion molding
- Compression molding
- Injection molding
- Blow molding
- Transfer molding

Applications

- Tubing and pipe
- Film and sheets
- Valves, fittings, and housings
- Wire and cable insulation

