

XIFLON PFA RODS

XIFLON PFA ROD is a semi-finished product manufactured from high-performance perfluoroalkoxy (PFA) resin, sourced from carefully selected and trusted suppliers including **XIFLON** fluoropolymer resin.

XIFLON PFA ROD is a semi-finished product from **XIFLON** offering outstanding chemical and UV resistance, as well as excellent thermal stability in a broad service temperature range from -200 °C to +260 °C. It combines high tensile strength, exceptional surface smoothness, and superior dielectric properties, making it ideal for use in chemical processing, semiconductor manufacturing, and electrical insulating parts in demanding environments.

XIFLON PFA ROD is extruded under strict quality control conditions and has a surface with a smooth finish. The rods are free from contaminants such as metal particles and inclusions.

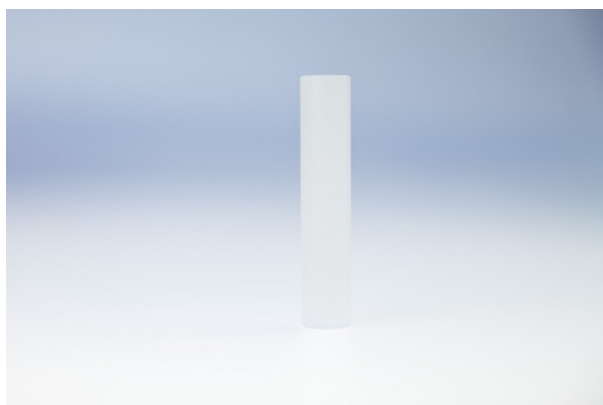
Characteristic properties

Properties	Value	Unit	Method
Specific gravity	2.12-2.17	-	ASTM D792
Tensile Strength at Break	≥ 25	MPa	ASTM D638
Elongation at Break	≥ 200	%	ASTM D638
Hardness	≥ 60	Shore D	ASTM D2240
Melting Point	300±10	°C	ASTM D3418
Limiting Oxygen Index	> 95	%	ASTM D2863

Note: Characteristics are based on controlled lab tests at XiFlon Shanghai Co., Ltd. Actual results may vary by test conditions.

Applications

XIFLON PFA ROD is particularly well-suited for precision machining into complex components that demand excellent chemical resistance and thermal stability. They are commonly used to manufacture seals, gaskets, valve seats, pump components, insulators, and fittings for the chemical processing, semiconductor, pharmaceutical, and food industries. With outstanding non-stick behavior, high purity, and resistance to aggressive chemicals at continuous service temperatures up to 260 °C, PFA rods ensure both mechanical integrity and long-term reliability in demanding operating environments.



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Standard Dimensions

Diameter, mm	Length, mm	Tolerance, mm	
		Diameter	Length
10	1000	0 / +1.0	0 / +20
12			
15			
18			
20			
25			
30		0 / +2.0	
35			
40			
45			
50			
55			
60		0 / +2.5	
65			
70			
75			
80			
85			
90			
95			
100			
110			
120			
130			
140			
150			

CUSTOM LENGTH can be cut and supplied according to customer requirements

Storage

XIFLON PFA RODS should be stored in a clean, dry, and cool environment, away from direct sunlight, heat sources, and strong oxidizing agents. For best results, keep them in their original packaging and allow sufficient conditioning time at room temperature before machining.

For more information, please contact XiFlon Shanghai Co., Ltd.