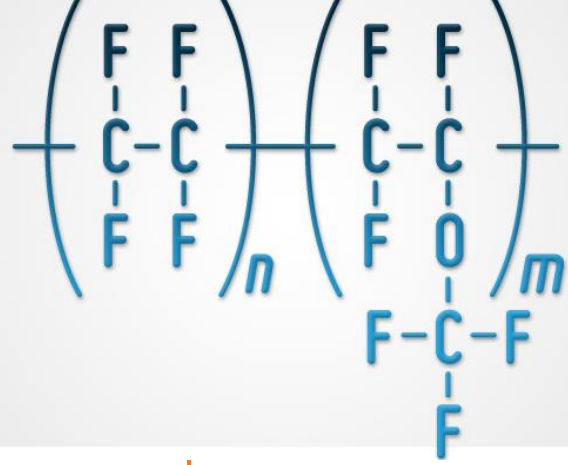


PFA



PFA (perfluoroalkoxy)

PFA is clear transparent with a light blue glow. The material combines many of the properties of PTFE and FEP.

PFA is often used when clarity, flexibility, and a higher continuous operating temperature range are required.

Key properties

- Lower melting temperature than PTFE
- Transparent/clear
- Low dielectric constant (insulating)
- Chemically inert
- Very low coefficient of friction
- No stick
- UV resistant (does not age)
- Not hygroscopic (water absorption <0.01%)
- FDA approval
- Working temperature from -200°C to +260°C

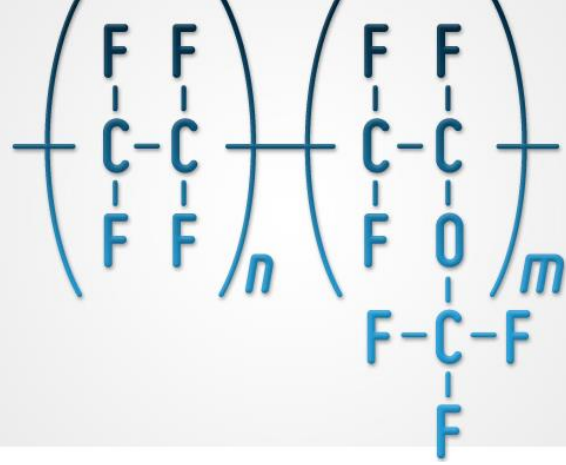
Possibilities

- PFA tubing
 - Cleanroom PFA tubing
 - PFA high pressure hoses
 - PFA heat shrink tubing
 - PFA connectors
 - PFA rod
 - PFA rings
 - PFA bellows
 - PFA welding liners
 - PFA film/foil
 - Coating with PFA
- etc.

Technical information

In the Semi-conductor and Pharmaceutical industries PFA HP (High Purity) hoses are used for fluid handling applications requiring extremely low absorption level.

PFA



General properties PFA

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	260
	Chemical resistance		-	Excellent
	Specific gravity	D 792	g/cm ³	2.15
	Flammability	UL94		V-0
Electrical	Dielectric constant	D 150 at 10 ³ Hz	-	2.04
		D 150 at 10 ⁶ Hz	-	2.04
	Dielectric dissipation factor	D 150 at 10 ³ Hz	-	0.0002
		D 150 at 10 ⁶ Hz	-	0.0003
	Dielectric strength	D 149	kV/mm	55
	Volume resistivity	D 257	Ohm·cm	>10 ¹⁸
Mechanical	Tensile strength	D 1708, D 638	Mpa	30
	Elongation	D 1708, D 638	%	300
	Compressive strength	D 695	Mpa	15
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	690
	Tensile Modulus	D 638	Mpa	270
	Hardness	D 2240	-	60-65
Thermal	Melting point		°C	305
	Thermal conductivity	+23°C	W/Kg.m	0.25
	HDT	DIN 75	°C	
	method A			74
	method B			48

Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.