

PFA: Perfluoroalkoxy

Neoflon™ PFA



PRODUCT DESCRIPTION

PFA is a high-performance, melt-processible fluoropolymer that exhibits similar characteristics to PTFE. It performs exceedingly well in extreme thermal and chemical environments.

General Purpose Grades: Neoflon™ fluoroplastics AP-230

High Purity Grades: Neoflon™ fluoroplastics grade AP-231SH

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PRODUCT BENEFITS

- Temperature range: -320°F to +500°F
- Exceptional dielectric insulation properties
- Negligible moisture absorption
- Low coefficient of friction
- Non-stick surface
- Very low gas permeation and outgassing
- May be welded with hot air welding equipment
- Chemically inert to all industrial chemicals and solvents
- High resistance to outdoor weathering
- Does not support combustion
- Low metals and ion extractables

TYPICAL APPLICATIONS

- Pump housings and pipe linings
- Fluid handling or chemical processing equipment
- Wet bench equipment
- Tanks
- Semiconductor wafer carriers
- Hostile environments involving chemical, thermal, and mechanical stress
- Food processing and packing equipment

MATERIAL CLASS

- ASTM D 3307 Type II
- USDA and FDA compliant CFR-177.1550
- 3A Sanitary Standard 20-17
- USP Class VI





Data Sheet - NEOFLON™ PFA

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Melt Flow Rate

GRADE

MECHANICAL/PHYSICAL

Specific Gravity
Water Absorption, 24 hr.
Tensile Strength, 23°C
Elongation, 23°C
Compressive Strength, 25°C*
Impact Strength, 23°C, Notched Izod
Flexural Modulus, 23°C
Durometer Hardness, Shore D
Coefficient of Friction

THERMAL

Melting Point, Nominal Thermal Expansion (21°C to 100°C) Oxygen Index Maximum Service Temperature Flammability

Deformation Under Load, 25°C, 1987 psi,

ELECTRICAL

Volume Resistivity
Dielectric Strength Short Time (.125in)
Dielectric Constant, 23°C, 10⁶ Hz
Dissipation Factor, 23°C, 10⁶ Hz

TEST METHOD	UNIT	AP-230	AP-231SH
D3307	g/10 min	1.5-2.5	1.5-2.5
D3307	g/cm³	2.14-2.16	2.12-2.17
D570	%	<0.01	<0.01
D3307	psi	4,350	4,350
D3307	%	300	300
D695	psi	725-870	725-870
D256	J/m	No Break	No Break
D790	psi	84,000-100,000	84,000-100,000
D2240	D	60	60
		0.04-0.05	0.04-0.05
D621	%	8-9	8-9
			* At 1% Deformation

* At 1% Deformation

D3307	°C	300-310	300-310
D696	mm/mm/°C	12 x 10 ⁻⁵	12 x 10 ⁻⁵
D2863	%	>95	>95
	°C	260	260
UL 94		V-0	V-0

D257	ohm-sq	10 ¹⁸	1018
D149	Volts/mil	500-600	500-600
D150		2.1	2.1
D150		.003	.003