

Asahi Glass Fluon® P-810UP PFA Perfluoropolymer

Category : Polymer , Thermoplastic , Fluoropolymer , PFA , Polyperfluoroalkoxyethylene, Molded/Extruded

Material Notes:

Fluon® PFA is a copolymer of tetrafluoroethylene (C2F4) and perfluoroalkoxyethylene, which has excellent chemical, electrical, mechanical and surface properties. PFA retains many inherent characteristics and similar properties of PTFE but can be processed using conventional thermoplastic techniques, such as extrusion molding, injection molding, blow molding, or electrostatic powder coating. And Fluon® PFA can be used in a wide range of temperatures from extremely low to high temperatures (260°C at the maximum) without losing its superior properties. Information provided by Asahi Glass Company, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Glass-Fluon-P-810UP-PFA-Perfluoropolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 - 2.12 g/cc	2.10 - 2.12 g/cc	ASTM D792
Water Absorption	<= 0.030 %	<= 0.030 %	ASTM D570
Melt Flow	7.0 - 18 g/10 min	7.0 - 18 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D1706
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM D638
Tensile Strength, Ultimate	8.00 MPa @Temperature 250 °C	1160 psi @Temperature 482 °F	ASTM D638
Elongation at Break	410 %	410 %	ASTM D638
	600 % @Temperature 250 °C	600 % @Temperature 482 °F	ASTM D638
Flexural Modulus	0.630 GPa	91.4 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256A
Coefficient of Friction, Dynamic	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	130 µm/m-°C @Temperature 20.0 °C	72.2 µin/in-°F @Temperature 68.0 °F	ASTM D696
Specific Heat Capacity	1.046 J/g-°C	0.2500 BTU/lb-°F	
Thermal Conductivity	0.251 W/m-K	1.74 BTU-in/hr-ft²-°F	ASTM C177

Thermal Properties	Metric	English	Comments
Melting Point	305 ~ 315 °C	581 ~ 599 °F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+18 ohm-cm	>= 1.00e+18 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+17 ohm	>= 1.00e+17 ohm	ASTM D257
Dielectric Constant	<= 2.1	<= 2.1	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	<= 2.1	<= 2.1	
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	<= 2.1	<= 2.1	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	<= 0.00020	<= 0.00020	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	<= 0.00020	<= 0.00020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	<= 0.00020	<= 0.00020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	>= 300 sec	>= 300 sec	ASTM D495

Descriptive Properties	Value	Comments
Ball Pressure Temperature, °C	230	
Flex Life, Cycles	25000	

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