Hyflon® PFA P130X

Perfluoroalkoxy

Solvay Specialty Polymers

Message:

Hyflon® PFA is a unique family of semi-crystalline, melt processable perfluoropolymers which combine excellent mechanical characteristics to unique properties such as chemical inertness, heat resistance, inherent flame resistance, low surface energy, and exceptional dielectric properties. Hyflon® PFA resins have been designed to retain their properties over a wide range of temperatures from cryogenic to 300°C (572°F)* and are the material of choice in applications such as linings in the chemical process industry, specialty cables, semiconductor industry, aerospace, and other challenging industries. Hyflon® PFA P130X is designed for enhanced creep resistance, higher long-term pressure resistance, and excellent thermal stability. It is a ASTM D 3307 Type XVII.
* For rating at 300°C (572°F) contact your Solvay Representative.

General Information			
Features	Semicrystallization Low liquidity Heat resistance, high Flame retardancy		
Uses	Semiconductor molding compound Lining Cable sheath Piping system Pipe fittings Aerospace applications		
Agency Ratings	ASTM D 3307 Type XVII		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	5.0 - 9.0	g/10 min	ASTM D1238
Density	2.120 - 2.170	g/cm^3	ASTM D792
Heat of crystallization	28.0 - 38.0	J/g	ASTM D4591
Heat of Fusion	28.0 - 38.0	J/g	ASTM D4591
Linear expansion coefficient	1.2E-4 - 2.0E-4	cm/cm/°C	ASTM D696
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	55 - 60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (23°C)	500 - 600	MPa	ASTM D1708
Tensile Strength (Break, 23°C)	> 22.0	MPa	ASTM D1708
Tensile Elongation (Break, 23°C)	> 300	%	ASTM D1708
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	310 - 316	°C	ASTM D4591
Peak Crystallization Temperature (DSC)	285 - 295	°C	ASTM D4591
Specific Heat (23°C)	900 - 1100	J/kg/°C	ASTM E1269
Thermal Conductivity (40°C)	0.15 - 0.25	W/m/K	ASTM C177
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	95	%	ASTM D2863

Additional Information
PROCESSINGBecause PFA is corrosive in the melt, machinery used to process Hyflon® should be lined with corrosion resistant alloys.HEALTH SAFETY AND ENVIRONMENTHyflon® PFA P130X is a very inert polymer and it is not harmful if used and handled according to standard processing procedures.If handled inappropriately, it may release harmful toxic chemicals. Please refer to the Material Safety Data Sheets for more information on handling and safety.PACKAGING AND STORAGEHyflon® PFA P130X resin is available in 25 kg (55 lbs) and 600 kg (1323 lbs) packaging. Though it has an indefinite shelf life, it is recommended to store it in a clean area, protected from direct sunlight, and possible contamination.

NOTE	
1.	1.0 mm/min

Recommended distributors for this material

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