Solvay Specialty Polymers Hyflon® PFA 120X Perfluoroalkoxy (PFA) (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PFA

Material Notes:

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 250-260°C (482-500°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 120X is a low melt flow rate resin designed for blow molding applications, where very high viscosity and melt strength are needed. It also has significantly lower permeability to gasses than standard PFAs'.Additional Information: PROCESSING Because PFA is corrosive in the melt, machinery used to process Hyflon should be lined with corrosion resistant alloys. HEALTH SAFETY AND ENVIRONMENT Hyflon® PFA 120X 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 STORAGE Hyflon® PFA 120X 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.Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hyflon-PFA-120X-Perfluoroalkoxy-PFA-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.12 - 2.17 g/cc	0.0766 - 0.0784 lb/in³	ASTM D792
Melt Flow	2.5 - 5.0 g/10 min @Load 5.00 kg, Temperature 372 °C	2.5 - 5.0 g/10 min @Load 11.0 lb, Temperature 702 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	4.60 MPa @Temperature 280 °C	667 psi @Temperature 536 °F	ASTM D1708
	>= 26.0 MPa @Temperature 23.0 °C	>= 3770 psi @Temperature 73.4 °F	ASTM D1708
Elongation at Break	>= 300 % @Temperature 23.0 °C	>= 300 % @Temperature 73.4 °F	ASTM D1708
	480 % @Temperature 280 °C	480 % @Temperature 536 °F	ASTM D1708
	0.0490 GPa	7.11 ksi	

Mechanical Properties	Metric	English	Comments
Tensile Modulus	@Temperature 280 °C	@Temperature 536 °F	1mm/min; ASTM D1708
	0.500 - 0.600 GPa @Temperature 23.0 °C	72.5 - 87.0 ksi @Temperature 73.4 °F	1.0 mm/min; ASTM D1708

Thermal Properties	Metric	English	Comments
Heat of Fusion	34.0 - 45.0 J/g	14.6 - 19.4 BTU/lb	DSC
	35.0 - 45.0 J/g	15.1 - 19.4 BTU/lb	Crystallization Heat; DSC
CTE, linear	120 - 200 µm/m-°C	66.7 - 111 µin/in-°F	ASTM D696
Specific Heat Capacity	0.900 - 1.10 J/g-°C @Temperature 23.0 °C	0.215 - 0.263 BTU/lb-°F @Temperature 73.4 °F	DSC
Thermal Conductivity	0.200 W/m-K @Temperature 40.0 °C	1.39 BTU-in/hr-ft²-°F @Temperature 104 °F	ASTM C177
Melting Point	310 - 325 °C	590 - 617 °F	ASTM D3307
Crystallization Temperature	295 °C	563 °F	Peak, DSC

Descriptive Properties	Value	Comments
Agency Ratings	ASTM D 3307 Type II	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Flame Retardant	
	High Heat Resistance	
	Low Flow	
	Semi Crystalline	
Forms	Pellets	
Generic	PFA	
Processing Method	Extrusion	

Descriptive Properties	Value	Comments
Uses	Aerospace Applications	
	Cable Jacketing	
	Liners	
	Piping	
	Semiconductor Molding Compounds	
	Tubing	

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