

Solvay Specialty Polymers Hyflon[®] PFA 120 Perfluoroalkoxy (PFA)

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 up 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 120 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. Features: Flame Retardant; High Heat Resistance; Low Flow; Semi Crystalline Uses: Aerospace Applications; Cable Jacketing; Liners; Piping; Semiconductor Molding Compounds; Tubing Additional Properties: Crystallization Heat - DSC 35.0 to 45.0 J/g; Density - ASTM D792 2.120 to 2.170 g/cm³; Heat of Fusion - DSC 34.0 to 45.0 J/g; Linear Expansion Coefficient - ASTM D696 1.2E-4 to 2.0E-4 cm/cm/[°]C; Tensile Modulus - ASTM D1708 (280[°]C): 49.0 MPa Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hyflon-PFA-120-Perfluoroalkoxy-PFA.php

Physical Properties	Metric	English	Comments
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	>= 26.0 MPa	>= 3770 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
	480 % @Temperature 280 [°] C	480 % @Temperature 536 [°] F	ASTM D1708
Tensile Modulus	0.500 - 0.600 GPa	72.5 - 87.0 ksi	1.0 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.900 - 1.10 J/g- [°] C	0.215 - 0.263 BTU/lb- [°] F	ASTM C351
Thermal Conductivity	0.200 W/m-K @Temperature 40.0 [°] C	1.39 BTU-in/hr-ft ² - [°] F @Temperature 104 [°] F	ASTM C177
Melting Point	310 - 316 [°] C	590 - 601 [°] F	DSC
Crystallization Temperature	295 [°] C	563 [°] F	Peak; ASTM D3418

Descriptive Properties	Value	Comments
Agency Ratings	ASTM D 3307 Type II	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Form	Pellets	
Processing Technique	Extrusion	

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