

## Solvay Specialty Polymers Hyflon<sup>®</sup> PFA 125 Perfluoroalkoxy (PFA)

Category : Polymer , Thermoplastic , Fluoropolymer , PFA

### Material Notes:

Hyflon<sup>®</sup> 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<sup>®</sup> PFA resins have been designed to retain their properties over a wide range of temperatures from cryogenic to 300<sup>°</sup>C (572<sup>°</sup>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<sup>®</sup> PFA 125 is a low melt flow rate perfluoroalkoxy resin designed for enhanced creep resistance, higher long-term pressure resistance, and excellent thermal stability. It is a Type II PFA according to ASTM D 3307. 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 - ASTM D4591 28.0 to 38.0 J/g; Density - ASTM D792 2.120 to 2.170 g/cm<sup>3</sup>; Heat of Fusion - ASTM D4591 28.0 to 38.0 J/g; Linear Expansion Coefficient - ASTM D696 1.2E-4 to 2.0E-4 cm/cm/<sup>°</sup>C Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Hyflon-PFA-125-Perfluoroalkoxy-PFA.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hyflon-PFA-125-Perfluoroalkoxy-PFA.php)

Physical Properties	Metric	English	Comments
Melt Flow	1.5 - 3.0 g/10 min @Load 5.00 kg, Temperature 372 <sup>°</sup> C	1.5 - 3.0 g/10 min @Load 11.0 lb, Temperature 702 <sup>°</sup> F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ISO 868
Tensile Strength at Break	>= 25.0 MPa	>= 3630 psi	ASTM D638
	4.60 MPa @Temperature 280 <sup>°</sup> C	667 psi @Temperature 536 <sup>°</sup> F	ASTM D1708
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Tensile Modulus	0.500 - 0.600 GPa	72.5 - 87.0 ksi	1.0 mm/min; ASTM D638
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.900 - 1.10 J/g- <sup>°</sup> C	0.215 - 0.263 BTU/lb- <sup>°</sup> F	ASTM C351
Thermal Conductivity	0.150 - 0.250 W/m-K @Temperature 40.0 <sup>°</sup> C	1.04 - 1.74 BTU-in/hr- ft <sup>2</sup> - <sup>°</sup> F @Temperature 104 <sup>°</sup> F	ASTM C177

Thermal Properties	Metric	English	Comments
Crystallization Temperature	285 - 295 Â°C	545 - 563 Â°F	Peak; ASTM D3418
Oxygen Index	95 %	95 %	ASTM D2863

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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