

Solvay Specialty Polymers Hyflon® PFA 450 Fluoropolymer (discontinued **)

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

Material Notes:

Data provided by the manufacturer. Hyflon® PFA 450 has outstanding physical and chemical properties typical of fluoropolymers. Hyflon® PFA 420

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hyflon-PFA-450-Fluoropolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.12 - 2.17 g/cc	0.0766 - 0.0784 lb/in³	
Water Absorption	<= 0.050 %	<= 0.050 %	
Linear Mold Shrinkage	0.040 - 0.060 cm/cm	0.040 - 0.060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength, Ultimate	22.0 - 28.0 MPa	3190 - 4060 psi	
Elongation at Break	>= 300 %	>= 300 %	
	>= 400 %	>= 400 %	
	@Temperature 250 °C	@Temperature 482 °F	
Flexural Modulus	0.600 - 0.650 GPa	87.0 - 94.3 ksi	
Izod Impact, Notched	NB	NB	ASTM D256
Izod Impact, Unnotched	NB	NB	(Notch not specified)
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	NB	NB	Notch not specified
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	140 µm/m-°C	77.8 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	250 µm/m-°C	139 µin/in-°F	

Thermal Properties	@Temperature 200 °C Metric	@Temperature 392 °F English	Comments
Melting Point	>= 300 °C	>= 572 °F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous
Oxygen Index	>= 95 %	>= 95 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+17 ohm-cm	>= 1.00e+17 ohm-cm	
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
Surface Resistance	>= 1.00e+17 ohm	>= 1.00e+17 ohm	
Dielectric Constant	2.1	2.1	
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.00030 - 0.0080	0.00030 - 0.0080	
	@Frequency 50 Hz, Temperature 23.0 - 150 °C	@Frequency 50 Hz, Temperature 73.4 - 302 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	350 - 410 °C	662 - 770 °F	

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