3M Dyneon™ PVDF 6108/0001 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

Polyvinylidene Fluoride (PVDF) is ideal for multiple applications across a wide array of industries. Widely used in the chemical process industry, wire and cable industry, semiconductor industry, and oil and gas industry, PVDF is also gaining recognition in automotive, building, electronics, food processing, pharmaceutical and batteries. 3M™ Dyneon™ PVDF 6108/0001 is easily processed under a variety of conventional thermoplastic conversion techniques, being particularly suitable for injection molding. This grade is designed for parts that require shrinkage rates of 2-3%. PVDF 6108/0001 is inherently pure and chemically resistant against a variety of aggressive fluids and solvents. PVDF 6108/0001 exhibits excellent dimensional stability, abrasion resistance and high strength, and maintains its mechanical properties at elevated temperature.High temperature capabilityExcellent chemical resistance to a variety of aggressive fluids and solventsGood permeation resistanceSmooth, anti-fouling surfacesInjection molding gradeLow shrinkage ratesExcellent strength and dimensional stabilityGood color stabilityInformation provided by Dyneon, A 3M Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-61080001-Polyvinylidene-Fluoride.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in³	ISO 1183
Water Absorption	<= 0.040 %	<= 0.040 %	24 hr @ 23°C; ISO 62 (method 1)
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238
	24 g/10 min @Load 5.00 kg, Temperature 230 °C	24 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	50mm/min; ASTM D638
Elongation at Break	35 %	35 %	50mm/min; ASTM D638
Elongation at Yield	8.0 %	8.0 %	50mm/min; ASTM D638
Flexural Modulus	1.93 GPa	280 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	169 °C	336 °F	ASTM D3418

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	
Oxygen Index	>= 44 % @Thickness 3.00 mm	>= 44 % @Thickness 0.118 in	Sheet; ASTM D2863

Descriptive Properties	Value	Comments
Form	Pellets	

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