

3M Dyneon™ PVDF 1008/0001 Polyvinylidene Fluoride (discontinued **)

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, pharmaceutical and batteries. 3M™ Dyneon™ PVDF 1008/0001 is easily processed under a variety of conventional thermoplastic conversion techniques, being particularly suitable for injection molding. Dyneon PVDF 1008/0001 is inherently pure and chemically resistant against a variety of aggressive fluids and solvents. PVDF 1008/0001 exhibits excellent dimensional stability, abrasion resistance and high strength, and maintains its mechanical properties at elevated temperature. These products are supplied in pellet form utilizing high purity packaging techniques. Excellent chemical resistance to a variety of aggressive fluids and solvents Good permeation resistance Injection molding grade Excellent strength and dimensional stability Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-10080001-Polyvinylidene-Fluoride-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ISO 1183
Water Absorption	<= 0.040 %	<= 0.040 %	24 hr @ 23°C; ISO 62 (method 1)
Linear Mold Shrinkage	0.030 cm/cm	0.030 in/in	
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	24 g/10 min	24 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	50mm/min; ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	50mm/min; ASTM D638
Flexural Modulus	2.20 GPa	319 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	174 °C	345 °F	ASTM D3418
Deflection Temperature at 0.46 MPa	148 °C	298 °F	ASTM D648

<small>(55 psi)</small> Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 44 %	>= 44 %	ASTM D2863

Descriptive Properties	Value	Comments
Form	Pellets	

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