3M Dyneon[™] PVDF 60512/0000 Polyvinylidene Fluoride (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

Polyvinylidenefluoride (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 equiptment, pharmaceutical equiptment and batteries. 3M[™] Dyneon[™] PVDF 60512/0000 offers a unique blend of properties of a PVDF copolymer and a PVDF homopolymer. PVDF 60512/0000 exhibits the mechanical strength and high temperature capability of a homopolymer with the ductility and impact resistance found in a copolymer. These products are ideal for many tubing and piping applications requiring high strength and good impact resistance. Temperature capability up to 130°CGood chemical resistance to a variety of aggressive fluids and solventsGood permeation resistanceGood weatherabilityImproved ductility and impact resistance over PVDF homopolymersSmooth surfacesInformation provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-605120000-Polyvinylidene-Fluoride-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments	
Density	1.77 g/cc	0.0639 lb/in³	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	1.0 g/10 min	1.0 g/10 min	ASTM D1238	
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F		
	3.0 g/10 min	3.0 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	38.0 MPa	5510 psi	50mm/min; ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	50mm/min; ASTM D638
Elongation at Break	225 %	225 %	50mm/min; ASTM D638
Elongation at Yield	11 %	11 %	50mm/min; ASTM D638
Tensile Modulus	1.30 GPa	189 ksi	1mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	173 °C	343 °F	ASTM D3418
Maximum Service Temperature, Air	130 °C	266 °F	

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Thermal Properties (66 psi)	Metric 140 °C	English	Comments	
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F		

Descriptive Properties	Value	Comments
Form	Pellets	

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