

3M Dyneon™ PVDF 6012/0000 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

3M™ Dyneon™ PVDF 6012/0000 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 battery applications. Dyneon PVDF 6012/0000 is a high molecular weight homopolymer, suitable for extrusion or compression molding into pipes, tubes, sheets, and slabs. PVDF is inherently pure and chemically resistant to a wide array of aggressive media. This grade exhibits excellent thermal and dimensional stability, high strength, and maintains its mechanical properties at elevated temperatures. Excellent chemical resistance to a wide variety of aggressive fluids and solvents. Good permeation resistance. Excellent strength and dimensional stability. Extrusion or compression molding grade. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-60120000-Polyvinylidene-Fluoride.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)
Melt Index of Compound	0.50 g/10 min	0.50 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	1.5 g/10 min	1.5 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	50mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	50mm/min; ASTM D638
Elongation at Break	35 %	35 %	50mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	50mm/min; ASTM D638
Flexural Modulus	2.10 GPa	305 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	173 °C	343 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	148 °C	298 °F	ASTM D648

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	COMPLIANT M D2863

Descriptive Properties	Value	Comments
Form	Powder	

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