

3M Dyneon™ PVDF 1012/1001 Polyvinylidene Fluoride (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

High molecular weight grade PVDF Powder grade Excellent chemical resistance to a wide variety of aggressive fluids and solvents Good permeation resistance 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-10121001-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)
Melt Index of Compound	0.50 g/10 min	0.50 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	
	1.5 g/10 min	1.5 g/10 min	
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	ASTM D1238
	5.0 g/10 min	5.0 g/10 min	
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 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	174 °C	345 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	
Flammability, UL94	V-0	V-0	

Thermal Properties	Metric	English	Comments
Oxygen Index			Sheet, ASTM D2863
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Form	Powder	

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