3M Dyneon™ PVDF 1015/1001 Polyvinylidene Fluoride (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

Ultra-high molecular weight grade PVDFPowder gradeExcellent chemical resistance to a wide variety of aggressive fluids and solventsGood permeation resistanceExcellent strength and dimensional stabilityInformation provided by Dyneon, A 3M Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-10151001-Polyvinylidene-Fluoride-nbspdiscontinued-.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)
Melt Index of Compound	0.20 g/10 min @Load 5.00 kg, Temperature 230 °C	0.20 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238
	0.70 g/10 min @Load 10.0 kg, Temperature 230 °C	0.70 g/10 min @Load 22.0 lb, Temperature 446 °F	ASTM D1238

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	2.00 GPa	290 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)	143 °C	289 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	
Oxygen Index	>= 44 % @Thickness 3.00 mm	>= 44 % @Thickness 0.118 in	Sheet; ASTM D2863

Descriptive Properties	Value	Comments

Form		Powder
Descriptive Properties	Value	Comments

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