3M Dyneon™ PVDF 11010/0000 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

3M™ Dyneon™ PVDF 11010/0000 is a copolymer of VF2 and HFP (hexafluoropropylene). Recommended for flared tubing, it combines excellent chemical resistance, and dimensional stability with a moderate degree of flexibility. 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, and pharmaceutical equipment and battery applications.Good flexibility and mechanical strength in extruded tubingFlareability of extruded tubingGood chemical resistance to acids, bases, alcohols, ectMeets requirements of Factory Mutual Standard FM 4910NSF 61 CertificationInformation provided by Dyneon, A 3M Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-110100000-Polyvinylidene-Fluoride.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	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238
	6.0 g/10 min @Load 5.00 kg, Temperature 230 °C	6.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	50mm/min; ASTM D638
Tensile Strength, Yield	27.0 MPa	3920 psi	50mm/min; ASTM D638
Elongation at Break	400 %	400 %	50mm/min; ASTM D638
Flexural Strength	37.0 MPa	5370 psi	2mm/min; ASTM D790
Flexural Modulus	0.900 GPa	131 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	

Thermal Properties	Metric	English	Comments
Heat Softening Point	154 °C	309 °F	1 kg load; ISO 306
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 44 % @Thickness 3.00 mm	>= 44 % @Thickness 0.118 in	Sheet; ASTM D2863

Descriptive Properties	Value	Comments
Form	Granules	

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