

3M Dyneon™ PVDF 11008/0003 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

PVDF is ideal for multiple applications across a wide array of industries. Widely used in the chemical processing, wire and cable, semiconductor, and oil and gas industries, PVDF is also gaining recognition in automotive, building, electronics, food processing, pharmaceutical and battery applications. PVDF 11008/0003 combines excellent chemical resistance, dimensional stability and excellent flame and smoke resistance with a moderate degree of flexibility. (For applications requiring high degrees of flexibility, see our 30000 series copolymers.) PVDF 11008/0003 has set the standard for plenum rating jacketing and tubes, consistently achieving UL 150°C rating in numerous cable constructions and fiber raceway designs. Dyneon PVDF 11008/0003 is a copolymer of VF2 and HFP. Improved flexibility over PVDF homopolymers. Very low smoke and low flame generation. Ideal for applications where high strength and a moderate degree of flexibility are required. Ideal for high speed extrusion. Excellent weatherability. Good chemical resistance. Long term use temperatures up to 150°C. Processable using most conventional thermoplastic conversion techniques. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-110080003-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	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	24 g/10 min	24 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	52.0 MPa	7540 psi	50mm/min; ASTM D638
Elongation at Break	800 %	800 %	50mm/min; ASTM D638
Flexural Modulus	1.00 GPa	145 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	ASTM D3418
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 65 %	>= 65 %	Sheet; ASTM D2863
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	10 mA, after 2 min; ASTM D257
Surface Resistivity per Square	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	< 1V after 2 min - 500 V; ASTM D257
Dielectric Constant	7.0 @Frequency 1e+6 Hz	7.0 @Frequency 1e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Form	Granules	

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