3M™ Dyneon™ Fluoroplastic PVDF 110080001

Polyvinylidene Fluoride

3M Advanced Materials Division

Message:

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 11008/0001 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 11008/0001 has set the standard for plenum rating jacketing and tubes, consistently achieving UL 150°C rating in numerous cable constructions and fiber raceway designs.

General Information			
Features	Copolymer		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	High Strength		
	Low Gas Permeability		
	Low Liquid Permeability		
	Solvent Resistant		
Uses	Automotive Applications		
	Batteries		
	Construction Applications		
	Electrical/Electronic Applications		
	Non-specific Food Applications		
	Oil/Gas Applications		
	Pharmaceuticals		
	Wire & Cable Applications		
Forms	Granules		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.78	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	8.0	g/10 min	
230°C/5.0 kg	24	g/10 min	
Water Absorption [1] (23°C, 24 hr)	< 0.040	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength [2] (Break, 23°C)	47.0	MPa	ASTM D638
Tensile Elongation [3] (Break, 23°C)	600	%	ASTM D638
Flexural Modulus [4] (23°C)	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	160	°C	ASTM D3418
NOTE			
1.	Method 1		
2.	50 mm/min		
3.	50 mm/min		
4.	2.0 mm/min		

Recommended distributors for this material

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