3M™ Dyneon™ Fluoroplastic PVDF 60080001

Polyvinylidene Fluoride

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PVDF 6008/0001 is a Polyvinylidene Fluoride (PVDF) product. It can be processed by injection molding and is available in Europe or North America. Applications of 3M™ Dyneon™ Fluoroplastic PVDF 6008/0001 include electrical/electronic applications, automotive, construction applications, food contact applications and medical/healthcare.
Characteristics include:
Flame Rated
Chemical Resistant
Good Dimensional Stability
High Purity
High Strength

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Color Stability		
	Good Dimensional Stability		
	High Purity		
	High Strength		
	Solvent Resistant		
Uses	Automotive Applications		
	Batteries		
	Construction Applications		
	Electrical/Electronic Applications		
	Non-specific Food Applications		
	Oil/Gas Applications		
	Pharmaceuticals		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Injection Molding		
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	
Molding Shrinkage	3.0	%	
Water Absorption [1] (23°C, 24 hr)	< 0.040	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2]			ASTM D638

Yield, 23°C	55.0	MPa	
Break, 23°C	42.0	MPa	
Tensile Elongation [3]			ASTM D638
Yield, 23°C	7.0	%	
Break, 23°C	35	%	
Flexural Modulus [4] (23°C)	2500	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 4.00 mm	147	°C	
1.8 MPa, Annealed, 4.00 mm	112	°C	
Peak Melting Temperature	174	°C	ASTM D3418
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index (3.00 mm)	44	%	ASTM D2863
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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