3M™ Dyneon™ Fluoroplastic PVDF 60100000

Polyvinylidene Fluoride

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PVDF 6010/0000 is a Polyvinylidene Fluoride (PVDF) product. It can be processed by extrusion and is available in Europe or North America. Applications of 3M™ Dyneon™ Fluoroplastic PVDF 6010/0000 include electrical/electronic applications, automotive, construction applications, food contact applications and medical/healthcare.
Characteristics include:
Flame Rated
Chemical Resistant
Flame Retardant
Good Dimensional Stability
Good Toughness

General Information	
Features	Flame Retardant
	General Purpose
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Dimensional Stability
	Good Toughness
	Good UV Resistance
	Good Weather Resistance
	High Strength
	Homopolymer
	Low Gas Permeability
	Low Liquid Permeability
	Low Smoke Emission
	Medium Viscosity
	Solvent Resistant
Uses	Automotive Applications
	Batteries
	Construction Applications
	Electrical/Electronic Applications
	General Purpose
	Non-specific Food Applications
	Oil/Gas Applications
	Pharmaceuticals
	Wire & Cable Applications
Forms	Pellets
	Powder

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	2.0	g/10 min	
230°C/5.0 kg	6.0	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)	35.0 to 50.0	MPa	ASTM D638
Tensile Elongation [3] (Break, 23°C)	20 to 50	%	ASTM D638
Flexural Modulus [4] (23°C)	2100	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	173	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [5]	> 1.0E+14	ohms	ASTM D257
Volume Resistivity [6]	> 1.0E+14	ohms·cm	ASTM D257
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		
5.	Voltage <1V, after 2 min - 500V		
6.	Intensity = 10mA, after 2 min		

Recommended distributors for this material

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