

3M™ Dyneon™ Fluoroplastic PVDF 32008/0009

Polyvinylidene Fluoride

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PVDF 32008/0009 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 32008/0009 include wire & cable and hose/tubing.

Characteristics include:

- Chemical Resistant
- Copolymer
- Flame Retardant
- Good Flexibility
- Heat Resistant

General Information			
Features	Copolymer		
	Flame Retardant		
	Good Chemical Resistance		
	Good Flexibility		
	High Heat Resistance		
	High Impact Resistance		
	Low Shrinkage		
	Low Smoke Emission		
	Low Temperature Resistant		
Uses	Insulation		
	Tubing		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.76	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	5.0	g/10 min	
230°C/5.0 kg	15	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)	22.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	480	%	ASTM D638
Flexural Modulus ⁴ (23°C)	200	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-53.0	°C	ASTM D746A

Peak Melting Temperature	168	°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
Dielectric Constant (1 MHz)	7.00		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.00 mm)	100	%	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		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

