

## 3M Dyneon™ PVDF 32008/0009 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

### Material Notes:

3M™ Dyneon™ PVDF 32008/0009 is an ultra-flexible copolymer of VF2 and CTFE, exhibiting very low shrinkage and excellent impact resistance. Dyneon PVDF 32008/0009 also has a very low brittleness temperature, for excellent low temperature performance. This material is ideal for insulation and buffering materials for wire and cable applications and for tubing. PVDF 32008/0009 has excellent flame and smoke performance, with an LOI of 100. PVDF 32008/0009 is designed for high speed extrusion, and can be processed using a variety of conventional thermoplastic conversion techniques. As with all PVDF grades, PVDF 32008/0009 also possesses very good chemical and temperature resistance. Copolymer of VF2 and CTFE Ultra-flexible Very low shrinkage rates Wide operating temperature window Processable using a variety of thermoplastic conversion techniques Excellent low flame and low smoke performance Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-PVDF-320080009-Polyvinylidene-Fluoride.php](http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-320080009-Polyvinylidene-Fluoride.php)

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in <sup>3</sup>	ISO 1183
Water Absorption	<= 0.040 %	<= 0.040 %	24 hr @ 23°C; ISO 62 (method 1)
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	15 g/10 min	15 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	22.0 MPa	3190 psi	50mm/min; ASTM D638
Elongation at Break	475 %	475 %	50mm/min; ASTM D638
Flexural Modulus	0.200 GPa	29.0 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	168 °C	334 °F	ASTM D3418
Brittleness Temperature	-53.0 °C	-63.4 °F	ASTM D746A
Oxygen Index	>= 100 %	>= 100 %	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	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

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