

3M Dyneon™ PVDF 31508/0003 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

3M™ Dyneon™ PVDF 31508/0003 is a flexible copolymer of VF2 and CTFE, exhibiting very low shrinkage and excellent impact resistance. PVDF 31508/0003 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 31508/0003 has excellent flame and smoke performance, with an LOI of 65. PVDF 31508/0003 is designed for high speed extrusion, and can be processed using a variety of conventional thermoplastic conversion techniques. As with all PVDF grades, PVDF 31508/0003 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-315080003-Polyvinylidene-Fluoride.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	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	0.425 GPa	61.6 ksi	2mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	169 °C	336 °F	ASTM D3418
Brittleness Temperature	-37.0 °C	-34.6 °F	ASTM D746A
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 65 %	>= 65 %	Sheet; ASTM D2863
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
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	7.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Form	Pellets	

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