3M™ Dyneon™ Fluoroplastic PVDF 315080003

Polyvinylidene Fluoride

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic PVDF 31508/0003 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 31508/0003 include wire & cable and hose/tubing.
Characteristics include:
Flame Rated
Chemical Resistant
Copolymer
Flame Retardant
Good Flexibility

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/cm³	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)	425	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-37.0	°C	ASTM D746A

Peak Melting Temperature	169	°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**
Flame Rating	V-0		UL 94
Oxygen Index (3.00 mm)	65	%	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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