

3M™ Dyneon™ Fluoroplastic FEP 6322Z

Perfluoroethylene Propylene Copolymer

3M Advanced Materials Division

Message:

Features

Dyneon™ FEP 6322 Z Fluorothermoplastic was designed primarily for high-speed extrusion for wire insulation. Its distinguishing features include:

- High extrusion speed
- High thermal stability
- Wide processing window
- Superior dielectrical properties
- Excellent low smoke and low flame properties

General Information			
Features	Copolymer		
	Good Electrical Properties		
	Good Thermal Stability		
	Low Smoke Emission		
Uses	Insulation		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	2.15	g/cm ³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	22	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	20.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	300	%	ISO 527-1
Flexural Modulus (23°C)	580	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-40°C)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	252	°C	ISO 12086
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (0.250 mm)	65	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
23°C, 1 MHz	2.04		
23°C, 9.40 GHz	2.05		
Dissipation Factor			ASTM D150
1 MHz	< 7.0E-4		
9.40 GHz	3.0E-4		

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	> 95	%	ASTM D2863

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