3M™ Dyneon™ Fluoroplastic FEP 6338Z

Perfluoroethylene Propylene Copolymer

3M Advanced Materials Division

Message:

Features
Dyneon™ FEP 6338 Z Fluorothermoplastic was designed primarily for ultra-high-speed wire extrusion. Its distinguishing features include:
Low viscosity
Very high extrusion speed
High thermal stability
Wide processing window
Excellent dielectric properties

General Information			
Features	Copolymer Good Electrical Properties Good Thermal Stability Low Viscosity		
Uses	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Wire & Cable Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	2.15	g/cm³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	38	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
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	255	°C	ISO 12086
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (0.250 mm)	70	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
23°C, 1 MHz	2.05		
23°C, 9.40 GHz	2.04		
Dissipation Factor			ASTM D150
1 MHz	5.0E-4		
9.40 GHz	3.0E-4		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	> 95	%	ASTM D2863

Recommended distributors for this material

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