3M™ Dyneon™ Fluoroplastic FEP 6303Z

Perfluoroethylene Propylene Copolymer

3M Advanced Materials Division

Message:

Features
Dyneon™ FEP 6303 Z Fluorothermoplastic was primarily developed for tubing extrusion for the wire and cable and chemical process industry.
General properties of this FEP grade are shown below:
Excellent dielectrical properties
High thermal stability
Long term temperature rating up to 200 °C
Good mechanical properties
Outstanding chemical resistance
Wide processing window

General Information			
Features	Copolymer		
	Good Chemical Resistance		
	Good Electrical Properties		
	Good Thermal Stability		
Uses	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	2.14	g/cm³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	3.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 23°C)	30.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	350	%	ISO 527-1
Flexural Modulus (23°C)	580	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-40°C)	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	255	°C	ISO 12086
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (0.250 mm)	64	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
23°C, 1 MHz	< 2.15		
23°C, 9.40 GHz	2.06		
Dissipation Factor			ASTM D150
1 MHz	< 7.0E-4		
9.40 GHz	4.0E-4		
Flammability	**Nominal Value**	**Unit**	**Test Method**

Flame Rating	V-0		UL 94
Oxygen Index	> 95	%	ASTM D2863

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