

3M™ Dyneon™ Fluoroplastic FEP 6307Z

Perfluoroethylene Propylene Copolymer

3M Advanced Materials Division

Message:

Features

Dyneon™ FEP 6307 Z Fluorothermoplastic was developed for extrusion and injection molding 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

Outstanding chemical resistance

Wide processing window

Complies with VDE 0207-norm

General Information			
Features	Copolymer		
	Good Chemical Resistance		
	Good Electrical Properties		
	Good Thermal Stability		
Uses	Wire & Cable Applications		
Agency Ratings	VDE 0207		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	2.15	g/cm ³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	7.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	25.0	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	257	°C	ISO 12086
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (0.250 mm)	63	kV/mm	ASTM D149
Dielectric Constant	ASTM D150		
	23°C, 1 MHz	2.05	
	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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