3M™ Dyneon™ Fluoroplastic FEP 6301Z

Perfluoroethylene Propylene Copolymer

3M Advanced Materials Division

Message:

Features
Dyneon™ FEP 6301 Z Fluorothermoplastic was developed for transfer and compression molding for the 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
Forms	Pellets
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	2.14	g/cm³	ISO 12086
Melt Mass-Flow Rate (MFR) (372°C/5.0 kg)	1.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 23°C)	34.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	350	%	ISO 527-1
Flexural Modulus (23°C)	530	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)	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

Recommended distributors for this material

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