3M™ Dyneon™ Fluoroplastic ET 6235Z

Ethylene Tetrafluoroethylene Copolymer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroplastic ET 6235Z is a melt processable fluoroplastic resin, consisting mainly of alternating tetrafluoroethylene und ethylene monomer units (ETFE).
Features
Wide service temperature range from -200 °C to +150 °C
Low flammability
Excellent electrical and mechanical properties
Very good resistance to solvents and chemicals
Extremely high resistance to outdoor weathering
High light transmission in the visible and UV ranges
Non-stick characteristics
Excellent tear and tear propagation resistance
Low permeability
Good resistance to radiation

General Information	
Features	Copolymer
	Good Chemical Resistance
	Good Electrical Properties
	Good Tear Strength
	Good Weather Resistance
	Non-Stick
	Radiation (Gamma) Resistant
	Solvent Resistant
UL File Number	E188957
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm³	ISO 12086
Melt Mass-Flow Rate (MFR) (297°C/5.0 kg)	10	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1200	MPa	ISO 527-1
Tensile Stress (Break, 23°C)	49.0	MPa	ISO 527-1
Tensile Strain (Break, 23°C)	480	%	ISO 527-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	266	°C	ASTM D4591
Maximum Service Temperature	150	°C	DIN 57207

Flame Resistance (110.0 µm)	Building Material Class B1		DIN 4102
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	59	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.58		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, measured on compression molded plaques)	V-0		UL 94
Oxygen Index	35	%	ASTM D2863
Optical	Nominal Value	Unit	
Refractive Index [1]	1.400		
Transmittance (100 µm, 600 nm)	87.0	%	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	300 to 340	°C	
NOTE			
1.	100 micron film		

Recommended distributors for this material

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