Fluon® ETFE

Ethylene Tetrafluoroethylene Copolymer

Asahi Glass Co., Ltd.

Message:

Fluon®ETFE is a thermoplastic fluoropolymer developed by Asahi Glass. It is a copolymer comprising of tetrafluoroethylene (C2F4) and ethylene (C2H4). Fluon®ETFE is a balanced fluoropolymer that has chemical resistance and electrical propertiescomparable to typical fluoropolymers, such as PTFE, PFA and FEP and performs better than ECTFE or PVdF with its improved mechanical strength and very easy mouldability.
Applications:
Electrical cables
Tubes
Casing
Filament
Moulded parts
Films

General Information	
Features	Good Chemical Resistance
	Good Heat Seal
	Good Moldability
	Good Weather Resistance
	High Flow
	Low Friction
	Low to No Odor
	Low to No Taste
	Low to No Water Absorption
	Oil Resistant
Uses	Electrical/Electronic Applications
	Filaments
	Film
	Tubing
	Wire & Cable Applications
Processing Method	Coating
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	g/cm³	ASTM D792
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness	50		ASTM D785
Durometer Hardness (Shore D)	67		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800	MPa	ASTM D638
Tensile Strength	48.0	MPa	ASTM D638
Tensile Elongation (Break)	430	%	ASTM D638
Flexural Modulus	900	MPa	ASTM D790
Coefficient of Friction	0.20		
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	150	°C	
Melting Temperature	260	°C	
CLTE - Flow	9.4E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength	120	kV/mm	ASTM D149
Dielectric Constant	2.60		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	6.0E-4		
1 kHz	8.0E-4		
1 MHz	5.0E-3		
Arc Resistance	120	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity	1000	Pa·s	ASTM D3835

Recommended distributors for this material

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