

Asahi Glass Fluon® ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Fluorocarbon ETFE/ECTFE , Molded/Extruded

Material Notes:

A thermoplastic fluoropolymer developed by Asahi Glass. It is a copolymer comprising of tetrafluoroethylene and ethylene. Fluon® ETFE is a balanced fluoropolymer that has chemical resistance and electrical properties comparable to typical fluoropolymer, such as PTFE, PFA and FEP and also is more progressive than ECTFE or PVdF with its improved mechanical strength and very easy moldability. Information provided by Asahi Glass Company, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Glass-Fluon-ETFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570
Viscosity	1.00e+6 cP	1.00e+6 cP	Melt Velocity

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	50	50	ASTM D785
Hardness, Shore D	67	67	ASTM D785
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	430 %	430 %	ASTM D638
Tensile Modulus	0.800 GPa	116 ksi	ASTM D638
Flexural Modulus	0.900 GPa	131 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Coefficient of Friction	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	94.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	52.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Melting Point	260 $^\circ\text{C}$	500 $^\circ\text{F}$	
Maximum Service Temperature, Air	180 $^\circ\text{C}$	356 $^\circ\text{F}$	Continuous
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.6	2.6	ASTM D150
Dielectric Strength	120 kV/mm	3050 kV/in	ASTM D149
Dissipation Factor	0.00060	0.00060	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.00080	0.00080	
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.0050	0.0050	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

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