

Asahi Glass Fluon® C-88AXP ETFE Fluororesin

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Modified ETFE, Unreinforced

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-C-88AXP-ETFE-Fluororesin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	ASTM D792
Melt Flow	12 g/10 min	12 g/10 min	ASTM D359

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	430 %	430 %	ASTM D638
Flexural Modulus	0.882 GPa	128 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	
Flammability, UL94	V-0	V-0	
Oxygen Index	31 %	31 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5	2.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.5	2.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00070	0.00070	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0080	0.0080	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
10% Weight Loss °C	390	
Anti cracking at 200°C	good	
Heat Ageing (retention of elongation)	110%	
Heat Ageing (retention of tensile strength)	85%	

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