

Overview of materials for Fluorocarbon ETFE/ECTFE, Molded/Extruded

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

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Fluorocarbon ETFE/ECTFE, Molded/Extruded". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-Fluorocarbon-ETFEECTFE-MoldedExtruded.php

Physical Properties	Metric	English	Comments
Density	1.18 - 1.77 g/cc	0.0427 - 0.0640 lb/in ³	Average value: 1.66 g/cc Grade Count:7
Water Absorption	0.0100 - 0.0300 %	0.0100 - 0.0300 %	Average value: 0.0240 % Grade Count:5

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62.0 - 75.0	62.0 - 75.0	Average value: 69.8 Grade Count:4
Tensile Strength, Ultimate	30.0 - 48.0 MPa	4350 - 6960 psi	Average value: 38.2 MPa Grade Count:6
Elongation at Break	50.0 - 510 %	50.0 - 510 %	Average value: 278 % Grade Count:6
Modulus of Elasticity	0.500 - 1.65 GPa	72.5 - 240 ksi	Average value: 1.23 GPa Grade Count:4
Coefficient of Friction	0.200 - 1.60	0.200 - 1.60	Average value: 0.580 Grade Count:4

Thermal Properties	Metric	English	Comments
CTE, linear	94.0 - 130 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	52.2 - 72.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 108 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:6
Thermal Conductivity	0.150 - 0.216 W/m-K	1.04 - 1.50 BTU-in/hr-ft ² -°F	Average value: 0.179 W/m-K Grade Count:3
Melting Point	240 - 271 °C	464 - 520 °F	Average value: 255 °C Grade Count:6
Maximum Service Temperature, Air	149 - 180 °C	300 - 356 °F	Average value: 161 °C Grade Count:6
Flammability, UL94	V-0	V-0	Grade Count:3

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 - 1.00e+17 ohm-cm	1.00e+14 - 1.00e+17 ohm-cm	Average value: 7.50e+16 ohm-cm Grade Count:4

Dielectric Constant Electrical Properties	2.50 - 2.60 Metric	2.50 - 2.60 English	Average value: 2.58 Grade Count:9 Comments
Dielectric Strength	19.7 - 197 kV/mm	500 - 5000 kV/in	Average value: 96.8 kV/mm Grade Count:7
Dissipation Factor	0.000600 - 0.0100	0.000600 - 0.0100	Average value: 0.00335 Grade Count:4
Arc Resistance	120 sec	120 sec	Average value: 120 sec Grade Count:3

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China