

Honeywell ETFE EX30 Mono-Axially Oriented, ETFE Film (discontinued **)

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

Material Notes:

Description: ETFE EX30 is a 1.2 mil (30 micron) mono-axially oriented, ethylene tetrafluoroethylene (ETFE) film. It offers superior weather ability, UV transmission, chemical and graffiti resistance, exceptional clarity and enhanced mechanical properties. It is widely used as a protective film for long term outdoor applications like retro-reflective signage and photovoltaic cells. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-ETFE-EX30-Mono-Axially-Oriented-ETFE-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.183 g/cc	1.183 g/cc	ASTM D1505
Density	1.77 g/cc	0.0640 lb/in ³	Yield Density
Moisture Absorption at Equilibrium	0.0030 %	0.0030 %	ASTM D570
Water Vapor Transmission	12.92 g/m ² /day	0.8320 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	30.5 microns	1.20 mil	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	70.3 - 82.0 MPa	10200 - 11900 psi	ASTM D882
Film Tensile Strength at Yield, TD	24.1 - 41.4 MPa	3500 - 6000 psi	ASTM D882
Film Elongation at Break, MD	130 - 160 %	130 - 160 %	ASTM D882
Film Elongation at Break, TD	390 - 520 %	390 - 520 %	ASTM D882
Film Elongation at Yield, MD	35 - 45 %	35 - 45 %	ASTM D882
Film Elongation at Yield, TD	15 - 17 %	15 - 17 %	ASTM D882
Secant Modulus, MD	1.338 - 1.53 GPa	194.1 - 222 ksi	ASTM D882
Secant Modulus, TD	0.765 - 0.830 GPa	111 - 120 ksi	ASTM D882
Coefficient of Friction	0.50 - 0.70	0.50 - 0.70	film to stainless steel; ASTM D1894
	1.0 - 1.6	1.0 - 1.6	film to film; ASTM D184
Elmendorf Tear Strength, MD	32.8 - 39.4 g/micron	833 - 1000 g/mil	
Elmendorf Tear Strength, TD	45.94 - 52.48 g/micron	1167 - 1333 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	100 - 134 MPa	14500 - 19500 psi	ASTM D882
Film Tensile Strength at Break, TD			ASTM D882

Mechanical Properties	54.5 - 67.6 MPa Metric	7900 - 9800 psi English	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	271 °C	520 °F	DTA
Oxygen Index	30 %	30 %	ASTM D2863
Shrinkage, MD	-7.00 %	-7.00 %	302°F / 150°C - 10 min.; ASTM D1204
	-3.00 %	-3.00 %	212°F / 100°C - 10 min.; ASTM D1204
Shrinkage, TD	1.0 %	1.0 %	212°F / 100°C - 10 min.; ASTM D1204
	3.5 %	3.5 %	302°F / 150°C - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Refractive Index	1.407	1.407	ASTM D542
Haze	1.5 - 4.5 %	1.5 - 4.5 %	ASTM D1003
Transmission, Visible	95 %	95 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.6	2.6	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	197 kV/mm	5000 kV/in	ASTM D149(A)

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