ETFE Coil

ETFE coil delivers UV stability, chemical resistance, and mechanical strength for architectural membranes, linings, photovoltaics, and wiring insulation. **SKU:** 1000014330-group
Product Code: FP36-FM-000127

Material Properties for Polymers

Chemical Resistance

Element	Value
Acids - concentrated	Good
Acids - dilute	Good
Alcohols	Good
Alkalis	Good
Aromatic hydrocarbons	Good
Greases and Oils	Good
Halogenated Hydrocarbons	Good
Halogens	Good
Ketones	Good

Electrical Properties

Element	Value
Dielectric constant @1MHz	2.6
Dissipation factor @ 1MHz	0.0005
Dielectric strength(kV mm?¹)	25
Surface resistivity(Ohm/sq)	>10¹?
Volume resistivity(Ohmcm)	10¹?

Physical Properties

Element	Value
Flammability	V0
Radiation resistance	Fair
Refractive index	1.403
Resistance to Ultra-violet	Excellent

Element	Value
Limiting oxygen index(%)	30-32
Water absorption(%)	0-0.03
Density(gcm?³)	1.7

Mechanical Properties

Element	Value
Hardness - Rockwell	R50
Elongation at break(%)	250-350
Tensile modulus(GPa)	0.8
Izod impact strength(J m?¹)	1000
Tensile strength(MPa)	28-48

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	105
Heat-deflection temperature - 1.8MPa(C)	70
Lower working temperature(C)	-100
Upper working temperature(C)	150-160
Specific heat(J K?¹ kg?¹)	1900-2000
Thermal conductivity(W m?¹ K?¹)	0.24@23°C
Coefficient of thermal expansion(x10?? K?¹)	90-170