

ETFE Plain Weave Gauze

Formula: ETFE

Thickness: 1mm

Length 1: 250mm

Length 2: 250mm

Product Shape: Plain Weave

Type: Plain Weave

Threads/cm: 6.7

Open Area: 44%

Nominal Aperture (Microns): 1000

Monofilament Diameter: 500 μ m

CAS Number: 25038-71-5

UOM Code: 079-988-12

SKU: 1000011439-group

Product Code: FP36-MS-000110

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)	>10 ¹²

Element	Value
Volume resistivity(Ohmcm)	10 ¹²

Physical Properties

Element	Value
Flammability	V0
Radiation resistance	Fair
Refractive index	1.403
Resistance to Ultra-violet	Excellent
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 ²)	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 ⁻⁵ K ⁻¹)	90-170