

POM Copolymer Film

Formula: Acetal - Copolymer POMC

Thickness: 1mm

Length 1: 1000mm

Length 2: 1000mm

UOM Code: 045-423-19

SKU: 1000006390-group

Product Code: OX30-SH-000110

Material Properties for Polymers

Chemical Resistance

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

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	3.7-4.4
Dissipation factor @ 1MHz	0.006-0.18
Dielectric strength(kV mm ²)	20@2.3mm
Surface resistivity(Ohm/sq)	10 ^{1?}
Volume resistivity(Ohmcm)	10 ^{1?}

Physical Properties

Element	Value
Flammability	HB

Element	Value
Radiation resistance	Poor
Resistance to Ultra-violet	Poor
Limiting oxygen index(%)	15
Water absorption - equilibrium(%)	0.6-0.8
Water absorption - over 24 hours(%)	0.2-0.25
Density(gcm ³)	1.41

Mechanical Properties

Element	Value
Hardness - Rockwell	M80
Poisson's ratio	0.35
Elongation at break(%)	15-40
Tensile modulus(GPa)	2.3-2.8
Izod impact strength(J m ²¹)	70-80
Tensile strength(MPa)	60-70

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	160
Heat-deflection temperature - 1.8MPa(C)	110
Lower working temperature(C)	-40
Upper working temperature(C)	80-120
Specific heat(J K ²¹ kg ²¹)	1500
Thermal conductivity(W m ²¹ K ²¹)	0.23-0.3@23°C
Coefficient of thermal expansion(x10 ²¹ K ²¹)	80-120