ESD 60 POM Copolymer Rod

ESD 60 POM copolymer rod provides mechanical strength with electrostatic dissipation for fixtures, tooling, and static?safe electronic handling. **SKU:** 1000098393-group
Product Code: OX30-RD-000131

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?¹)	20@2.3mm
Surface resistivity(Ohm/sq)	10¹?
Volume resistivity(Ohmcm)	10¹?

Physical Properties

Element	Value
Flammability	HB
Radiation resistance	Poor
Resistance to Ultra-violet	Poor
Limiting oxygen index(%)	15

Element	Value
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?¹)	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?¹ kg?¹)	1500
Thermal conductivity(W m?¹ K?¹)	0.23-0.3@23°C
Coefficient of thermal expansion(x10?? K?¹)	80-120