

POM (Acetal Static Dissipative)

Acetal Static Dissipative is a semicrystalline engineering plastic with permanent antistatic additives for varied applications in electronics.

Applications

Acetal Static Dissipative is desirable for applications requiring static dissipation that cannot tolerate the presence of carbon, such as moving parts experiencing friction and parts subject to fluid flow contact. It is commonly used for semiconductors, business machines, protection of electronics, computer technology, explosion protection and conveyor technology.

Key Product Benefits

- Permanently Antistatic
- Moisture Resistance
- Chemical Resistance
- Wear Resistance
- Low Coefficient of Friction
- Machinability

Properties

Property	Test Method	Value
Density		1.33 g/cm ³
Tensile Modulus	ASTM D638	189,000 psi
Tensile Strength @ Yield	ASTM D638	5,000 psi
Elongation @ Yield	ASTM D638	23%
Elongation @ Break	ASTM D638	20%
Flexural Strength	ASTM D790	7,000 psi
Flexural Modulus	ASTM D790	210,000 psi
Compression Strength @ 10% Strain	ASTM D695	6,700 psi
Compression Modulus	ASTM D695	150,000 psi
Izod Impact Strength	ASTM D256	1.6 ft-lb/in
Static Coefficient of Friction		0.11
Dynamic Coefficient of Friction		0.18
Melting Temperature		329°F

Property (Continued)	Test Method (Continued)	Value (Continued)
Heat Deflection Temperature @ 264 psi	ASTM D648	190°F
Service Temperature (Long Term)		212°F
Service Temperature (Short Term)		284°F
Coefficient of Linear Thermal Expansion		7.5 × 10 ⁻⁵ in/in/°F
Surface Resistivity	ASTM D257	109-1011 ohm/square
Dielectric Strength		500 V/mil
Water Absorption @ 24 hours	ASTM D570	1.4%
Flammability	UL 94	HB