

TECAFORM® SD

Acetal (POM) Copolymer

Ensinger Inc.

Message:

In recent years, industry has demanded a range of materials that not only possess strength, wear properties, heat and chemical resistance but materials that are less resistive to the build-up of a static charge. Ensinger has a family of such materials; their properties are listed on the reverse side of this sheet and described below.

Ensinger's static dissipative acetal contains no carbon fibers or powders and is generally accepted for clean room use. With its surface resistivity of 109 to 1011 ohm/square and its excellent bearing and wear characteristics, TECAFORM™ SD is ideal for moving components which may experience frictional or fluid-flow static charges.

General Information			
Features	Copolymer		
	Good strength		
	Good chemical resistance		
	Good wear resistance		
	Heat resistance, high		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm³	ASTM D792
Water Absorption			ASTM D570
Saturation	0.20	%	ASTM D570
Balance	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	45.5	MPa	ASTM D638
Tensile Elongation (Yield)	45	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Coefficient of Friction			
With self-dynamics	0.18		
With Self-Static	0.11		
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	82.2	°C	
Heat Deflection Temperature	88	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 - 1.0E+11	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			

Data obtained from extruded shapes material.

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