

Acetal (POM) Copolymer

Processing Method

Stat-Tech[™] AT-10CF/000

Key Characteristics

Product Description			
performance for critical election resins with reinforcing addition	ductive Compounds are specifically ronic equipment applications. These res such as carbon powder, carbon depending upon application require	e compounds combine the perfo fiber, nickel-coated carbon fibe	ormance of select engineering
General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	Carbon Fiber, 10% Filler	by Weight	
Features	AntistaticConductive	Electrically ConductiveStatically Conductive	
Uses	 Aerospace Applications Automotive Electronics Business Equipment 	 Computer Components Connectors Electrical Housing 	Electrical/Electronic ApplicationsHousings
RoHS Compliance	 RoHS Compliant 		
Forms	Pellets		

Technical Properties¹

Injection Molding

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hysical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.43	1.43	ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Molding Shrinkage - Across Flow	0.022 to 0.026 in/in	2.2 to 2.6 %	ASTM D955
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.69E+6 psi	11700 MPa	ASTM D638
Tensile Strength (Break)	9040 psi	62.3 MPa	ASTM D638
Tensile Elongation ² (Break)	2.3%	2.3 %	ASTM D638
Flexural Modulus	1.07E+6 psi	7380 MPa	ASTM D790
Flexural Strength	15500 psi	107 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.70 ft·lb/in	37 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	322 °F	161 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	286 °F	141 °C	
lectrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4 ohms	1.0E+2 to 1.0E+4 ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4 ohms⋅cm	1.0E+2 to 1.0E+4 ohms∙cm	ASTM D257

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Technical Data Sheet

ectrical		ypical Value (English)	Typical Value (SI) Test Method
Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV		3 msec	3 msec
	Pi	rocessing Informa	tion
jection	T	ypical Value (English)	Typical Value (SI)
Processing (Melt) Temp		390 to 410 °F	199 to 210 °C
otes			
	ot to be construed as speci	ifications.	
² Type I, 0.20 in/min (5.1 mm/min)		
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