Stat-Tech™ AT-CB2/000 CR

Acetal (POM) Copolymer

Key Characteristics

Product Description			
Stat-Tech™ AT-CB2/000 CR XP020229R2			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Filler / Reinforcement	• Carbon Nano		
Features	• Clean/High Purity		
Uses	• Aerospace Applications • Automotive Electronics • Business Equipment	• Computer Components • Connectors • Electrical Housing	• Electrical/Electronic Applications • Housings
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.36 to 1.42	1.36 to 1.42	ASTM D792
Molding Shrinkage - Flow	0.025 to 0.028 in/in	2.5 to 2.8 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	300000 to 600000 psi	2070 to 4140 MPa	ASTM D638
Tensile Strength (Break)	7500 to 10000 psi	51.7 to 68.9 MPa	ASTM D638
Tensile Elongation [2] (Break)	10 to 20 %	10 to 20 %	ASTM D638
Flexural Modulus	200000 to 500000 psi	1380 to 3450 MPa	ASTM D790
Flexural Strength	12000 to 15000 psi	82.7 to 103 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	1.0 to 2.5 ft·lb/in	53 to 130 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	307 °F	153 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	221 °F	105 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+5 to 1.0E+8 ohms	1.0E+5 to 1.0E+8 ohms	ASTM D257
Volume Resistivity	1.0E+4 to 1.0E+7 ohms·cm	1.0E+4 to 1.0E+7 ohms·cm	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80.0 to 85.0 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	374 to 392 °F	190 to 200 °C
Mold Temperature	167 to 185 °F	75.0 to 85.0 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

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