



# 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	<ul style="list-style-type: none"> <li>• Aerospace Applications</li> <li>• Automotive Electronics</li> <li>• Business Equipment</li> <li>• Computer Components</li> <li>• Connectors</li> <li>• Electrical Housing</li> <li>• Electrical/Electronic Applications</li> <li>• Housings</li> </ul>
Forms	• Pellets
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / 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 <sup>2</sup>	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 <sup>2</sup> (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 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	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	307 °F	153 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	221 °F	105 °C	ASTM D648
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

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## Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °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 to 85 °C

## Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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