

# Edgetek<sup>™</sup> AT-20GF/000 BLACK Acetal (POM) Copolymer

## **Key Characteristics**

General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Filler / Reinforcement	Glass Fiber, 20% Filler by Weight
Appearance	Black
Processing Method	Injection Molding

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

		-	
Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.54	1.54	ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 0.012 in/in	0.60 to 1.2 %	ASTM D955
<i>l</i> echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	10900 psi	75.0 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	906000 psi	6250 MPa	ASTM D790
Flexural Strength <sup>3</sup>	19600 psi	135 MPa	ASTM D790
npact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	0.94 ft·lb/in	50 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	302 °F	150 °C	
lectrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0630 in (1.60 mm))	HB	HB	UL 94

### **Processing Information**

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Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C	
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr	
Rear Temperature	374 to 392 °F	190 to 200 °C	
Middle Temperature	374 to 392 °F	190 to 200 °C	
Front Temperature	374 to 392 °F	190 to 200 °C	
Mold Temperature	167 to 185 °F	75.0 to 85.0 °C	
Interation Markers			

Injection Notes Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

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#### Notes

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

<sup>2</sup> 0.20 in/min (5.0 mm/min)

<sup>3</sup> 0.051 in/min (1.3 mm/min)

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