

# Edgetek<sup>™</sup> AT-30GF/000 BK004 Acetal (POM) Copolymer

# **Key Characteristics**

General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Filler / Reinforcement	Glass Fiber, 30% 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	1.62	1.62	ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 0.010 in/in	0.40 to 1.0 %	ASTM D955
<i>l</i> echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	14500 psi	100 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	1.07E+6 psi	7350 MPa	ASTM D790
Flexural Strength <sup>3</sup>	23200 psi	160 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)	0.84 ft·lb/in	45 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)	320 °F	160 °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 (0.06 in (1.6 mm))	HB	HB	UL 94

## **Processing Information**

	0		
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

Copyright ©, 2016 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMPLED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patiented invention without permission of the patient owner.

# Edgetek™ AT-30GF/000 BK004

#### 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)

## CONTACT INFORMATION

Americas United States - Avon Lake +1 440 930 1000 United States - McHenry +1 815 385 8500 Asia China - Guangzhou +86 20 8732 7260 China - Shenzhen +86 755 2969 2888 China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332 Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849 Europe Germany - Gaggenau +49 7225 6802 0 Spain - Barbastro (Huesca) +34 974 310 314

Beyond Polymers. Better Business Solutions.<sup>™</sup> www.polyone.com

#### **PolyOne Americas**

33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000 +1 866 POLYONE PolyOne Asia No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong

+86 21 5080 1188

Shanghai, 201203, China

# PolyOne Europe

6 Giällewee +352 269 050 35