

LubriOne[™] ATH-XC-361E

Acetal (POM) Homopolymer

Key Characteristics

offering low coefficient of fric	Wear-Resistant Compounds have be tion and improved wear resistance p	roperties. LubriOne compound	
reduce friction, noise, vibration	on, heat buildup and improve produc	t durability.	
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	HomopolymerLow Friction	LubricatedWear Resistant	
Uses	 Appliance Components Automotive Applications Bearings Business Equipment 	 Consumer Applications Conveyor Parts Gears Industrial Applications 	Printer PartsPulleysRollers
Forms	Pellets		
Processing Method	 Injection Molding 		

Technical Properties¹

hysical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.50	1.50	ASTM D792
Molding Shrinkage - Flow	0.020 to 0.023 in/in	2.0 to 2.3 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.020 %	0.020 %	ASTM D570
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	350000 psi	2410 MPa	ASTM D638
Tensile Strength ² (Yield)	7300 psi	50.3 MPa	ASTM D638
Tensile Elongation ² (Break)	10 to 12 %	10 to 12 %	ASTM D638
Flexural Modulus	340000 psi	2340 MPa	ASTM D790
Flexural Strength	11800 psi	81.4 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.25	0.25	
vs. Steel - Static	0.14	0.14	
npact	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	0.90 ft·lb/in	48 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)	255 °F	124 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	240 °F	116 °C	

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Processing Information					
Injection	Typical Value (English)	Typical Value (SI)			
Processing (Melt) Temp	380 to 420 °F	193 to 216 °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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