



LubriOne™ AT-000/05T NATURAL

Acetal (POM) Copolymer

Key Characteristics

Product Description			
PTFE lubricated POM compound			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• Copolymer • Low Friction	• Lubricated • Wear Resistant	
Uses	• Appliance Components • Automotive Applications • Bearings • Business Equipment	• Consumer Applications • Conveyor Parts • Gears • Industrial Applications	• Printer Parts • Pulleys • Rollers
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.43	1.43	ASTM D792
Molding Shrinkage - Flow	0.015 to 0.025 in/in	1.5 to 2.5 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	8410 psi	58.0 MPa	ASTM D638
Flexural Modulus ³	334000 psi	2300 MPa	ASTM D790
Flexural Strength ³	10900 psi	75.0 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.0 ft·lb/in	53 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	205 °F	96.0 °C	ASTM D648
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating 0.06 in (1.5 mm) 0.12 in (3.0 mm)	HB HB	HB HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	356 to 392 °F	180 to 200 °C
Mold Temperature	167 to 185 °F	75 to 85 °C

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Notes

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (50 mm/min)

³ 0.051 in/min (1.3 mm/min)

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