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			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.0 ft·lb/in	53 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	205 °F	96.0 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

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

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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