



LubriOne™ ATT-000/5T Black

Acetal (POM) Copolymer

Key Characteristics

Product Description

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
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
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38	ASTM D792
Molding Shrinkage - Flow	0.015 to 0.020 in/in	1.5 to 2.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	140000 psi	965 MPa	ASTM D638
Tensile Strength ² (Yield)	5080 psi	35.0 MPa	ASTM D638
Tensile Elongation ² (Break)	40 %	40 %	ASTM D638
Flexural Modulus	157000 psi	1080 MPa	ASTM D790
Flexural Strength (Yield)	6000 psi	41.4 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	1.9 ft·lb/in	100 J/m	ASTM D256A

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	1.0 to 2.0 hr	1.0 to 2.0 hr
Suggested Max Moisture	0.15 to 0.20 %	0.15 to 0.20 %
Rear Temperature	330 to 350 °F	166 to 177 °C
Middle Temperature	350 to 370 °F	177 to 188 °C
Front Temperature	370 to 390 °F	188 to 199 °C
Nozzle Temperature	380 to 410 °F	193 to 210 °C
Mold Temperature	170 to 200 °F	77 to 93 °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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