



# LubriOne™ ATC-000/20T BLACK UV

## 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	• Europe
Features	• Good Wear Resistance • Lubricated
Uses	• Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.50 g/cm <sup>3</sup>	1.50 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow	0.019 in/in	1.9 %	ISO 294-4
Molding Shrinkage - Across Flow	0.020 in/in	2.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	326000 psi	2250 MPa	ISO 527-2
Tensile Stress (Break)	6090 psi	42.0 MPa	ISO 527-2
Tensile Strain (Break)	15 %	15 %	ISO 527-2
Flexural Modulus	247000 psi	1700 MPa	ISO 178
Flexural Stress	13100 psi	90.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	2.4 ft·lb/in <sup>2</sup>	5.0 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	19 ft·lb/in <sup>2</sup>	40 kJ/m <sup>2</sup>	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	284 °F	140 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Vicat Softening Temperature	302 °F	150 °C	ISO 306
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80.0 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	356 to 410 °F	180 to 210 °C
Mold Temperature	140 to 212 °F	60.0 to 100 °C

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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