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 [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.50 g/cm³	1.50 g/cm³	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/in²	5.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	19 ft·lb/in²	40 kJ/m²	ISO 179
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	284 °F	140 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	
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

[1] Typical values are not to be construed as specifications.

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