

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	 Lubricated 	Wear Resistant	
Uses	 Industrial Applications 		
Forms	• Pellets		
Processing Method	 Injection Molding 		

Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.50 g/cm ³	1.50 g/cm ³	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	НВ	UL 94

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)		
Drying Temperature	176 to 212 °F	80 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 to 100 °C		

Notes

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¹ Typical values are not to be construed as specifications.

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