LubriOne™ ATC-000/02S Natural 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	• UV Stabilized
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.34 to 1.38 g/cm³	1.34 to 1.38 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00 to 12.0 cm³/10min	7.00 to 12.0 cm³/10min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	298000 psi	2060 MPa	ISO 527-2
Tensile Stress	6530 psi	45.0 MPa	ISO 527-2
Tensile Strain (Yield)	16 %	16 %	ISO 527-2
Tensile Strain (Break)	23 %	23 %	ISO 527-2
Flexural Modulus	252000 psi	1740 MPa	ISO 178
Flexural Stress	10100 psi	69.5 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	4.1 ft·lb/in²	8.7 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	29 ft·lb/in²	60 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	293 °F	145 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	167 °F	75.0 °C	
Vicat Softening Temperature	302 °F	150 °C	ISO 306
Melting Temperature (DSC)	329 to 338 °F	165 to 170 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Comparative Tracking Index	600 V	600 V	IEC 60112
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 to 100 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	356 to 410 °F	180 to 210 °C
Mold Temperature	167 to 212 °F	75 to 100 °C

Notes

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

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