



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/cm ³	1.34 to 1.38 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00 to 12.0 cm ³ /10min	7.00 to 12.0 cm ³ /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/in ²	8.7 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	29 ft·lb/in ²	60 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	293 °F	145 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	167 °F	75.0 °C	ISO 75-2/A
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