

LubriOne[™] ATC-20GF/15T-2S Natural UV

Acetal (POM) Copolymer

Key Characteristics

Product Description

PolyOne's LubriOne TM Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating, offering low coefficient of friction and improved wear resistance properties. These compounds combine the unique benefits of internal lubricants such PTFE, silicone, Aramide and molybdenum disulfide with a wide array of reinforcements and base engineering resins. Available in a wide range of physical properties, these materials are specified where certain key performance issues are critical. In addition to the standard range, products can be custom-formulated to meet your specific requirements or colors, offering you both product and design flexibility.

General

General		
Material Status	 Commercial: Active 	
Regional Availability	 Africa & Middle East Asia Pacific	Europe North America
Features	Low FrictionLubricated	UV StabilizedWear Resistant
Appearance	 Natural Color 	
Forms	Pellets	
Processing Method	 Injection Molding 	

Technical Properties¹

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hysical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.55 to 1.59 g/cm ³	1.55 to 1.59 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.00 to 4.00 cm ³ /10min	1.00 to 4.00 cm ³ /10min	ISO 1133
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	769000 psi	5300 MPa	ISO 527-2
Tensile Stress	5800 psi	40.0 MPa	ISO 527-2
Tensile Strain (Break)	1.2 %	1.2 %	ISO 527-2
Flexural Modulus	479000 psi	3300 MPa	ISO 178
Flexural Stress	7980 psi	55.0 MPa	ISO 178
npact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	1.3 ft·lb/in ²	2.7 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	4.8 ft·lb/in ²	10 kJ/m²	ISO 179
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	320 °F	160 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	284 °F	140 °C	
Vicat Softening Temperature	320 °F	160 °C	GE
Melting Temperature (DSC)	329 to 338 °F	165 to 170 °C	ISO 3146
lectrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94

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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	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	374 to 410 °F	190 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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