

LubriOne[™] ATC-000/20T Natural UV HF 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.

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General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East 	Europe	
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	1.48 to 1.52 g/cm ³	1.48 to 1.52 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14 to 18 g/10 min	14 to 18 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	10 to 14 cm ³ /10min	10 to 14 cm ³ /10min	ISO 1133
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-2
Tensile Stress	6530 psi	45.0 MPa	ISO 527-2
Tensile Strain (Break)	11 %	11 %	ISO 527-2
Flexural Modulus	290000 psi	2000 MPa	ISO 178
Flexural Stress	9430 psi	65.0 MPa	ISO 178
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	17 ft·lb/in ²	35 kJ/m ²	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
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
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm))	HB	HB	UL 94
FMVSS Burning Speed	< 4 in/min	< 100 mm/min	DIN 75200

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Technical Data Sheet

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	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.

CONTACT INFORMATION

Americas United States - Avon Lake +1 440 930 1000 United States - McHenry +1 815 385 8500

Asia China - Guangzhou +86 20 8732 7260 China - Shenzhen +86 755 2969 2888 China - Suzhou +86 512 6823 24 38

PolyOne Asia

+86 21 5080 1188

Z.J Hi-tech Park, Pudong

Shanghai, 201203, China

China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332 Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849

Germany - Gaggenau +49 7225 6802 0 Spain - Barbastro (Huesca) +34 974 310 314

Europe

ne.

Beyond Polymers. Better Business Solutions. SM www.polyone.com

PolyOne Americas

33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000

+1 866 POLYONE

PolyOne Europe No. 88 Guoshoujing Road

6 Giällewee +352 269 050 35