

PolyOne LubriOne™ AT-000/05T 2S Acetal (POM) Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-LubriOne-AT-00005T-2S-Acetal-POM-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 - 0.025 cm/cm	0.020 - 0.025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.3 MPa	7010 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	25 - 30 %	25 - 30 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	0.586 GPa	85.0 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.29 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	153 °C @Thickness 6.35 mm	307 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.9 °C @Thickness 6.35 mm	192 °F @Thickness 0.250 in	Unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Mold Temperature	75.0 - 85.0 °C	167 - 185 °F	
Drying Temperature	80.0 - 85.0 °C	176 - 185 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Copolymer	
	Lubricated	
Forms	Pellets	
Generic Material	Acetal (POM) Copolymer	
Generic Name	Acetal (POM) Copolymer	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Conveyor Parts	
	Printer Parts	

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