PolyOne LubriOne™ CTX-502 Natural Polyether Imide (PEI)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

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-CTX-502-Natural-Polyether-Imide-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	152 MPa	22000 psi	5.1 mm/min; ASTM D638
Tensile Strength, Yield	152 MPa	22000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	214 MPa	31000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	8.41 GPa	1220 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.17	0.17	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.19	0.19	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	211 °C @Thickness 6.35 mm	412 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C @Thickness 6.35 mm	401 °F @Thickness 0.250 in	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Features	Amorphous	
	Good Dimensional Stability	
	Good Wear Resistance	
	High Heat Resistance	
	High Rigidity	
	Lubricated	
Forms	Pellets	
Generic Material	PEI	
Generic Name	Polyether Imide (PEI)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Automotive Applications	
	Bearings	
	Business Equipment	
	Consumer Applications	
	Conveyor Parts	
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

Descriptive Properties	Value	Comments

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