

PolyOne LubriOne™ PC-20GF/15T Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

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-PC-20GF15T-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Water Absorption	0.080 % @Thickness 3.18 mm	0.080 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	82.7 MPa	12000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	5.0 - 10 %	5.0 - 10 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.55 GPa	225 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	ASTM D790
Izod Impact, Notched	1.50 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.81 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.43	0.43	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.18	0.18	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	144 °C @Thickness 6.35 mm	291 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C @Thickness 6.35 mm	280 °F @Thickness 0.250 in	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	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
Melt Temperature	288 - 316 °C	550 - 601 °F	
Mold Temperature	80.0 - 110 °C	176 - 230 °F	
Drying Temperature	120 - 130 °C	248 - 266 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Features	Good Wear Resistance	
	Low Friction	
	Lubricated	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
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	

Descriptive Properties	Value	Comments
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

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