

LG Chemical LUCEL GC210 POM+GF10%, High Rigidity

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer , 10% Glass Fiber Reinforced

Material Notes:

Feature: Injection Molding, POM+GF10%, High Rigidity
 Application: Casings of Pump and Pivot Bearings
 CAS No. 66455-31-0 and 65997-17-3
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-GC210-POMGF10-High-Rigidity.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Maximum Moisture Content	0.10	0.10	Injection Molding
Linear Mold Shrinkage, Flow	0.0060 - 0.011 cm/cm @Thickness 3.20 mm	0.0060 - 0.011 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 190 Å°C	15 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	83	83	ASTM D785
Tensile Strength, Yield	98.1 MPa @Thickness 3.20 mm	14200 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	127 MPa @Thickness 3.20 mm	18500 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.90 GPa @Thickness 3.20 mm	711 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	0.918 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	165 Å°C @Thickness 6.40 mm	329 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties (Temperature at 1.8 MPa (264 psi))	150 Â°C Metric	320 Â°F English	Comments Unannealed; ASTM D548
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	50.0 Â°C @Thickness >=0.750 mm	122 Â°F @Thickness >=0.0295 in	
UL RTI, Mechanical with Impact	50.0 Â°C @Thickness >=0.750 mm	122 Â°F @Thickness >=0.0295 in	
UL RTI, Mechanical without Impact	50.0 Â°C @Thickness >=0.750 mm	122 Â°F @Thickness >=0.0295 in	
Flammability, UL94	HB @Thickness >=0.750 mm	HB @Thickness >=0.0295 in	
	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Middle Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Nozzle Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Melt Temperature	210 - 220 Â°C	410 - 428 Â°F	Injection Molding
Mold Temperature	60.0 - 100 Â°C	140 - 212 Â°F	Injection Molding
Drying Temperature	90.0 - 110 Â°C	194 - 230 Â°F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Back Pressure			Injection Molding

Processing Properties	0.000 - 4.02 MPa Metric	0.000 - 583 psi English	Comments
Screw Speed	40 - 75 rpm	40 - 75 rpm	Injection Molding

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