

LG Chemical LUPOL GP3102 PP+MF10%, High Impact

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced, Impact Modified

Material Notes:

Description: Injection Molding, PP+MF10%, General Purpose, High Impact Application: Electrical & Electronic, Automotive Parts CAS: 9003-07-0 and 14807-96-6 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-GP3102-PPMF10-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0090 - 0.014 cm/cm @Thickness 3.20 mm	0.0090 - 0.014 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.4 MPa @Thickness 3.20 mm	4120 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	80 % @Thickness 3.20 mm	80 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	35.3 MPa @Thickness 6.40 mm	5120 psi @Thickness 0.252 in	1.3mm/min; ASTM D790
Flexural Modulus	1.57 GPa @Thickness 6.40 mm	228 ksi @Thickness 0.252 in	1.3mm/min; ASTM D790
Izod Impact, Notched	>= 0.883 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	>= 1.65 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	130 °C @Thickness 3.20 mm	266 °F @Thickness 0.126 in	Unannealed; ASTM D648
UL RTI, Electrical	65.0 °C	149 °F	

Thermal Properties	Metric @Thickness >=1.50 mm	English @Thickness >=0.0591 in	Comments
UL RTI, Mechanical with Impact	65.0 °C @Thickness >=1.50 mm	149 °F @Thickness >=0.0591 in	
UL RTI, Mechanical without Impact	65.0 °C @Thickness >=1.50 mm	149 °F @Thickness >=0.0591 in	
Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 °C	374 - 410 °F	Injection Molding
Middle Barrel Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Front Barrel Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Nozzle Temperature	210 - 230 °C	410 - 446 °F	Injection Molding
Melt Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Injection Molding
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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