

LG Chemical LUPOL HG3100 PP+MF10%, High Gloss

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

Material Notes:

Description: Injection Molding, PP+MF10%, High Gloss
Application: Electrical & Electronic Parts
CAS: 9003-07-0 and 7727-43-7
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-HG3100-PPMF10-High-Gloss.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	0.014 - 0.018 cm/cm @Thickness 3.20 mm	0.014 - 0.018 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 Â°C	10 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.3 MPa @Thickness 3.20 mm	4840 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	50 % @Thickness 3.20 mm	50 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	42.2 MPa @Thickness 6.40 mm	6120 psi @Thickness 0.252 in	1.3mm/min; ASTM D790
Flexural Modulus	1.37 GPa @Thickness 6.40 mm	199 ksi @Thickness 0.252 in	1.3mm/min; ASTM D790
Izod Impact, Notched	>= 0.294 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	>= 0.551 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 Â°C @Thickness 3.20 mm	248 Â°F @Thickness 0.126 in	Unannealed; ASTM D648
UL RTI, Electrical	65.0 Â°C	149 Â°F	

Thermal Properties	Metric @Thickness >=1.50 mm	English @Thickness >=0.0591 in	Comments
UL RTI, Mechanical with Impact	65.0 Å°C @Thickness >=1.50 mm	149 Å°F @Thickness >=0.0591 in	
UL RTI, Mechanical without Impact	65.0 Å°C @Thickness >=1.50 mm	149 Å°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 Å°C	374 - 410 Å°F	Injection Molding
Middle Barrel Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Front Barrel Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Nozzle Temperature	210 - 230 Å°C	410 - 446 Å°F	Injection Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Mold Temperature	40.0 - 60.0 Å°C	104 - 140 Å°F	Injection Molding
Drying Temperature	70.0 - 80.0 Å°C	158 - 176 Å°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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