LG Chemical LUPOL LW4405 PP+GF/MF40%

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler , Polypropylene, Mineral Reinforced

Material Notes:

Description: Injection Molding, PP+GF/MF40%, Low WarpageApplication: Electrical, Electronic and Automotive Parts CAS: 9003-07-0, 65997-17-3 and 12001-26-2Information provided by LG Chemical

Order this product through the following link:
http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-LW4405-PPGFMF40.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	3.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.3 MPa @Thickness 3.20 mm	12400 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	>= 10 % @Thickness 3.20 mm	>= 10 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	127 MPa @Thickness 6.40 mm	18500 psi @Thickness 0.252 in	1.3mm/min; ASTM D790
Flexural Modulus	7.06 GPa @Thickness 6.40 mm	1020 ksi @Thickness 0.252 in	1.3mm/min; ASTM D790
Izod Impact, Notched	>= 0.834 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	>= 1.56 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)	155 Â°C @Thickness 3.20 mm	311 Â°F @Thickness 0.126 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Middle Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Front Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°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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