

## LG Chemical LUPOY GP2100 PC+GF10%, Heat Resistance

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

### Material Notes:

Description: Injection Molding, PC+GF10%, General Purpose, Heat Resistance Application: IT/OA, E&E Housing and Components, Automotive (Interior) CAS: 103598-77-2 and 65997-17-3 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOY-GP2100-PCGF10-Heat-Resistance.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GP2100-PCGF10-Heat-Resistance.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	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	13 g/10 min @Load 1.20 kg, Temperature 300 °C	13 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	78.5 MPa @Thickness 3.20 mm	11400 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @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	3.53 GPa @Thickness 3.20 mm	512 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	>= 0.686 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 1.29 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	140 °C @Thickness 6.40 mm	284 °F @Thickness 0.252 in	Unannealed; ASTM D648

UL RTI Flammability Thermal Properties	80.0 °C Metric	176 °F English	Comments
UL RTI, Mechanical with Impact	80.0 °C	176 °F	
UL RTI, Mechanical without Impact	80.0 °C	176 °F	
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 300 °C	518 - 572 °F	Injection Molding
Middle Barrel Temperature	280 - 310 °C	536 - 590 °F	Injection Molding
Front Barrel Temperature	290 - 330 °C	554 - 626 °F	Injection Molding
Nozzle Temperature	290 - 330 °C	554 - 626 °F	Injection Molding
Melt Temperature	300 - 340 °C	572 - 644 °F	Injection Molding
Mold Temperature	90.0 - 120 °C	194 - 248 °F	Injection Molding
Drying Temperature	100 - 120 °C	212 - 248 °F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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