

## LG Chemical LUPOY GP5106F PC/ABS+GF10%, Flame Retardance

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

### Material Notes:

Description: Injection Molding, PC/ABS+GF10%, Flame Retardance Application: IT/OA (Housing) CAS: 103598-77-2, 9003-56-9, 68928-70-1, 1309-64-4 and 65997-17-3 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOY-GP5106F-PCABSGF10-Flame-Retardance.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GP5106F-PCABSGF10-Flame-Retardance.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	4.0 g/10 min @Load 2.16 kg, Temperature 250 Å°C	4.0 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	65.7 MPa @Thickness 3.20 mm	9530 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	7.0 % @Thickness 3.20 mm	7.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	3.92 GPa @Thickness 3.20 mm	569 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	0.686 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.29 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	113 Å°C @Thickness 6.40 mm	235 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric <sup>°C</sup>	English <sup>°F</sup>	Comments
UL RTI, Electrical	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=1.70 mm	140 Â°F @Thickness >=0.0669 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=1.70 mm	140 Â°F @Thickness >=0.0669 in	
Flammability, UL94	V-0 @Thickness >=1.70 mm	V-0 @Thickness >=0.0669 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Middle Barrel Temperature	235 - 255 Â°C	455 - 491 Â°F	Injection Molding
Front Barrel Temperature	250 - 265 Â°C	482 - 509 Â°F	Injection Molding
Nozzle Temperature	250 - 265 Â°C	482 - 509 Â°F	Injection Molding
Melt Temperature	235 - 265 Â°C	455 - 509 Â°F	Injection Molding
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 Â°F	Injection Molding
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.00200 - 0.00600 MPa	0.290 - 0.870 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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