

## LG Chemical LUPOY GN2201FM PC+GF20%, Halogen Free, Flame Retardant, Heat Resistance

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

### Material Notes:

Description: Injection Molding, PC+GF20%, Halogen Free Flame Retardant, Heat Resistance  
Application: IT/OA, Electric & Electronic Housing and Components  
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-GN2201FM-PCGF20-Halogen-Free-Flame-Retardant-Heat-Resistance.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN2201FM-PCGF20-Halogen-Free-Flame-Retardant-Heat-Resistance.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	7.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	7.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	108 MPa @Thickness 3.20 mm	15600 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	167 MPa @Thickness 3.20 mm	24200 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	5.88 GPa @Thickness 3.20 mm	853 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	>= 1.08 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 2.02 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 142 Â°C	>= 288 Â°F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
UL RTI, Electrical	120 Å°C	248 Å°F	
	@Thickness <=1.50 mm	@Thickness <=0.0591 in	
	120 Å°C	248 Å°F	
	@Thickness <=3.00 mm	@Thickness <=0.118 in	
UL RTI, Mechanical with Impact	90.0 Å°C	194 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	90.0 Å°C	194 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	105 Å°C	221 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	105 Å°C	221 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 300 Å°C	518 - 572 Å°F	Injection Molding
Middle Barrel Temperature	280 - 310 Å°C	536 - 590 Å°F	Injection Molding
Front Barrel Temperature	290 - 330 Å°C	554 - 626 Å°F	Injection Molding
Nozzle Temperature	290 - 330 Å°C	554 - 626 Å°F	Injection Molding
Melt Temperature	300 - 340 Å°C	572 - 644 Å°F	Injection Molding
Mold Temperature	90.0 - 120 Å°C	194 - 248 Å°F	Injection Molding
Drying Temperature	100 - 120 Å°C	212 - 248 Å°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding

Processing Properties	Metric 3.92 MPa	English 569 psi	Comments Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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