

LG Chemical LUPOY GN2101F PC+GF10%, Halogen Free, Flame Retardant, Heat Resistance

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

Material Notes:

Description: Injection Molding, PC+GF10%, 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-GN2101F-PCGF10-Halogen-Free-Flame-Retardant-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	8.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	8.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	76.5 MPa @Thickness 3.20 mm	11100 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	123 MPa @Thickness 3.20 mm	17800 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	3.53 GPa @Thickness 3.20 mm	512 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 0.785 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 1.47 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)	>= 138 Â°C	>= 280 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	Commentsolding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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