

## LG Chemical LUPOY GP1006FL PC, Flame Retardant

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

### Material Notes:

Description: Injection Molding, PC, Flame Retardant, High Flow Application: IT/OA, E&E Housing and Components CAS: 103598-77-2  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOY-GP1006FL-PC-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GP1006FL-PC-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	22 g/10 min @Load 1.20 kg, Temperature 300 Å°C	22 g/10 min @Load 2.65 lb, Temperature 572 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	61.8 MPa @Thickness 3.20 mm	8960 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 150 % @Thickness 3.20 mm	>= 150 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	103 MPa @Thickness 3.20 mm	14900 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 6.86 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	>= 12.9 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)	>= 130 Å°C @Thickness 6.40 mm	>= 266 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric °C	English 176 °F	Comments
UL RTI, Electrical	@Thickness <=1.00 mm	@Thickness <=0.0394 in	
	120 Â°C	248 Â°F	
	@Thickness <=1.50 mm	@Thickness <=0.0591 in	
	120 Â°C	248 Â°F	
UL RTI, Mechanical with Impact	@Thickness <=2.50 mm	@Thickness <=0.0984 in	
	120 Â°C	248 Â°F	
	@Thickness <=3.00 mm	@Thickness <=0.118 in	
	80.0 Â°C	176 Â°F	
UL RTI, Mechanical without Impact	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	110 Â°C	230 Â°F	
Flammability, UL94	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	110 Â°C	230 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	80.0 Â°C	176 Â°F	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	5VB	5VB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	30 - 60 sec	30 - 60 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 280 Å°C	500 - 536 Å°F	Injection Molding
Middle Barrel Temperature	280 - 300 Å°C	536 - 572 Å°F	Injection Molding
Front Barrel Temperature	300 - 320 Å°C	572 - 608 Å°F	Injection Molding
Nozzle Temperature	300 - 320 Å°C	572 - 608 Å°F	Injection Molding

Melt Temperature Processing Properties	300 - 320 Å°C Metric	572 - 608 Å°F English	Injection Molding Comments
Mold Temperature	80.0 - 120 Å°C	176 - 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
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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