

LG Chemical LUPOY GP1006FM PC, Flame Retardant

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

Material Notes:

Description: Injection Molding, PC, Flame Retardant
 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-GP1006FM-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	11 g/10 min @Load 1.20 kg, Temperature 300 Å°C	11 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	98.1 MPa @Thickness 3.20 mm	14200 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	>= 7.85 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	>= 14.7 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 Vicat Softening Point	141 Â°C Metric	286 Â°F English	Comments 50A V/N, ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
UL RTI, Electrical	120 Â°C	248 Â°F	
	@Thickness <=1.50 mm	@Thickness <=0.0591 in	
	120 Â°C	248 Â°F	
	@Thickness <=3.00 mm	@Thickness <=0.118 in	
UL RTI, Mechanical with Impact	90.0 Â°C	194 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	90.0 Â°C	194 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	105 Â°C	221 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	V-0	V-0	
	@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	

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