

LG Chemical LUPOY GN1002FL PC, Halogen Free, Flame Retardant, High Flow

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

Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardant, High Flow, High Impact
 Application: IT/OA (M/P Battery Inner Pack Housing)
 CAS: 103598-77-2, 25232-40-0 and 139189-30-3
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN1002FL-PC-Halogen-Free-Flame-Retardant-High-Flow.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	25 g/10 min @Load 1.20 kg, Temperature 300 Å°C	25 g/10 min @Load 2.65 lb, Temperature 572 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	60.8 MPa @Thickness 3.20 mm	8820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 100 % @Thickness 3.20 mm	>= 100 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	92.2 MPa @Thickness 3.20 mm	13400 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.29 GPa @Thickness 3.20 mm	333 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 6.37 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	>= 11.9 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)	>= 115 Å°C @Thickness 6.40 mm	>= 239 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric ^{°C}	English ^{°F}	Comments
UL RTI, Electrical	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°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 >=2.00 mm	@Thickness >=0.0787 in	
	5VA	5VA	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Middle Barrel Temperature	275 - 290 Â°C	527 - 554 Â°F	Injection Molding
Front Barrel Temperature	275 - 290 Â°C	527 - 554 Â°F	Injection Molding
Nozzle Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Melt Temperature	275 - 290 Â°C	527 - 554 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Drying Temperature	90.0 - 100 Â°C	194 - 212 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding

Processing Properties	Metric 3.92 MPa	English 569 psi	Commentsolding
Screw Speed	40 - 80 rpm	40 - 80 rpm	Injection Molding

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