

LG Chemical LUPOY GN1000F PC, Halogen Free, Flame Retardant, Transparency

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

Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardant, Transparency Application: IT/OA, Electric & Electronic Housing and Components
CAS: 103598-77-2 and 181028-79-5 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN1000F-PC-Halogen-Free-Flame-Retardant-Transparency.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	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 250 Å°C	13 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	72.6 MPa @Thickness 3.20 mm	10500 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 50 % @Thickness 3.20 mm	>= 50 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	118 MPa @Thickness 3.20 mm	17100 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.65 GPa @Thickness 3.20 mm	384 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 0.343 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	>= 0.643 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Å°C @Thickness 6.40 mm	203 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties UL RTI, Electrical	80.0 Å°C Metric	176 Å°F English	Comments
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	80.0 Å°C	176 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	80.0 Å°C	176 Å°F	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	80.0 Å°C	176 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	80.0 Å°C	176 Å°F	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	80.0 Å°C	176 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	89 %	89 %	ASTM D1003

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 255 Å°C	455 - 491 Å°F	Injection Molding
Middle Barrel Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Front Barrel Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Nozzle Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Melt Temperature	230 - 265 Å°C	446 - 509 Å°F	Injection Molding
Mold Temperature	50.0 - 80.0 Å°C	122 - 176 Å°F	Injection Molding
Drying Temperature	75.0 - 85.0 Å°C	167 - 185 Å°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding

Back Pressure Processing Properties	0.981 - 3.92 MPa Metric	142 - 569 psi English	Injection Molding Comments
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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