

## LG Chemical LUPOY GN1008RF PC, Halogen Free, Flame Retardant, High impact strength

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

### Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardant, High impact strength Application: IT&OA (Notebook PC battery pack housing) CAS: 103598-77-2, 137050-02-03 and 139189-30-3 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOY-GN1008RF-PC-Halogen-Free-Flame-Retardant-High-impact-strength.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN1008RF-PC-Halogen-Free-Flame-Retardant-High-impact-strength.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Maximum Moisture Content	0.040	0.040	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	18 g/10 min @Load 1.20 kg, Temperature 300 Å°C	18 g/10 min @Load 2.65 lb, Temperature 572 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.8 MPa @Thickness 3.20 mm	8680 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	91.2 MPa @Thickness 3.20 mm	13200 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.35 GPa @Thickness 3.20 mm	341 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)	>= 101 Å°C @Thickness 6.40 mm	>= 214 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

UL RTI Electrical Thermal Properties	80.0 Â°C Metric	176 Â°F English	Comments
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	
Flammability, UL94	V-2	V-2	
	@Thickness >=0.400 mm	@Thickness >=0.0157 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	V-0	V-0	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	V-0	V-0	
	@Thickness >=0.600 mm	@Thickness >=0.0236 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	245 - 260 Â°C	473 - 500 Â°F	Injection Molding
Middle Barrel Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Front Barrel Temperature	265 - 280 Â°C	509 - 536 Â°F	Injection Molding
Nozzle Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Melt Temperature	245 - 285 Â°C	473 - 545 Â°F	Injection Molding
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	Injection Molding
Drying Temperature	85.0 - 95.0 Â°C	185 - 203 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 1.96 MPa	142 - 284 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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