

## LG Chemical LUPOL GP3156F Flame Retardant PP

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

### Material Notes:

Description: Injection Molding, FR PP, General Purpose, Flame Retardant  
 Application: Electrical & Electronic, Automotive Parts  
 CAS: 9003-07-0, 84852-53-9, 14807-96-6 and 1309-64-4  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOL-GP3156F-Flame-Retardant-PP.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-GP3156F-Flame-Retardant-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0090 - 0.013 cm/cm @Thickness 3.20 mm	0.0090 - 0.013 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	6.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.5 MPa @Thickness 3.20 mm	3980 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	38.2 MPa @Thickness 6.40 mm	5550 psi @Thickness 0.252 in	10mm/min; ASTM D790
Flexural Modulus	1.77 GPa @Thickness 6.40 mm	256 ksi @Thickness 0.252 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 0.490 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	>= 0.918 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 Â°C @Thickness 3.20 mm	275 Â°F @Thickness 0.126 in	Unannealed; ASTM D648
UL RTI, Electrical	125 Â°C	257 Â°F	

Thermal Properties	@Thickness >=0.750 Metric	@Thickness >=0.0295 English	Comments
	125 Å°C	257 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	125 Å°C	257 Å°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	125 Å°C	257 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	120 Å°C	248 Å°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	120 Å°C	248 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Å°C	248 Å°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	120 Å°C	248 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	120 Å°C	248 Å°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	120 Å°C	248 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Å°C	248 Å°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	120 Å°C	248 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	V-0	V-0	
		@Thickness >=0.0591 in	

Thermal Properties	@Thickness >=1.50 mm Metric	in English	Comments
	V-0	V-0	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	5VB	5VB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	ASTM D495
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=2.00 mm	@Thickness >=0.0787 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 0.750 mm	@Thickness 0.0295 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Middle Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Front Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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