

## LG Chemical LUPOY GN5009F PC/ABS, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Description: Injection Molding, PC/ABS, Halogen Free Flame Retardant, High Flow  
 Application: IT/OA (Housing)  
 CAS: 103598-77-2, 9003-56-9 and 181028-79-5  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOY-GN5009F-PCABS-Halogen-Free-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN5009F-PCABS-Halogen-Free-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 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	21 g/10 min @Load 2.16 kg, Temperature 250 Å°C	21 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.9 MPa @Thickness 3.20 mm	7970 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	87.3 MPa @Thickness 3.20 mm	12700 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	2.94 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	5.51 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)	85.0 Å°C @Thickness 6.40 mm	185 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Å°C	140 Å°F	

Thermal Properties	Metric	English	Comments
	60.0 Å°C	140 Å°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Å°C	140 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Å°C	140 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-1	V-1	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VA	5VA	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature			Injection Molding

Processing Properties	210 - 240 Â°C Metric	410 - 464 Â°F English	Comments
Middle Barrel Temperature	215 - 250 Â°C	419 - 482 Â°F	Injection Molding
Front Barrel Temperature	225 - 260 Â°C	437 - 500 Â°F	Injection Molding
Nozzle Temperature	220 - 250 Â°C	428 - 482 Â°F	Injection Molding
Melt Temperature	230 - 260 Â°C	446 - 500 Â°F	Injection Molding
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 Â°F	Injection Molding
Drying Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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