

LG Chemical LUPOY GN5201F PC/ABS+GF20%, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Description: Injection Molding, PC/ABS+GF20%, Halogen Free Flame Retardant, High Stiffness Application: E&E (Housing, OA Frame) CAS: 103598-77-2, 9003-56-9, 181028-79-5 and 65997-17-3 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN5201F-PCABSGF20-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Maximum Moisture Content	0.040	0.040	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 250 °C	11 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	103 MPa @Thickness 3.20 mm	14900 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	147 MPa @Thickness 3.20 mm	21300 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	5.88 GPa @Thickness 3.20 mm	853 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	1.08 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	2.02 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	105 °C @Thickness 6.40 mm	221 °F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 °C	140 °F	

Thermal Properties	Metric	English	Comments
	60.0 °C	140 °F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
UL RTI, Mechanical with Impact	60.0 °C	140 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 °C	140 °F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
UL RTI, Mechanical without Impact	60.0 °C	140 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 °C	140 °F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 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	230 - 250 °C	446 - 482 °F	Injection Molding
Middle Barrel Temperature	245 - 265 °C	473 - 509 °F	Injection Molding
Front Barrel Temperature	260 - 275 °C	500 - 527 °F	Injection Molding
Nozzle Temperature	260 - 275 °C	500 - 527 °F	Injection Molding
Melt Temperature	245 - 275 °C	473 - 527 °F	Injection Molding
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection Molding
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding

Processing Properties	Metric	English	Comments
Back Pressure	0.981 - 1.96 MPa	142 - 284 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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