

LG Chemical LUPOY GN5151RF PC/ABS Mineral Filler

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

Description: Injection Molding, PC/ABS Mineral Filler, General Purpose, High Stiffness, Halogen Free Flame Retardant Application: E&E (Housing), IT/OA (Notebook PC 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-GN5151RF-PCABS-Mineral-Filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 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	9.0 g/10 min @Load 2.16 kg, Temperature 250 Å°C	9.0 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.8 MPa @Thickness 3.20 mm	8820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	15 % @Thickness 3.20 mm	15 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	4.12 GPa @Thickness 3.20 mm	597 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	1.84 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
UL RTI, Electrical	60.0 Å°C	140 Å°F	

Thermal Properties	@Thickness 1.00 - 1.10 Metric mm	@Thickness 0.0394 - 0.0433 in English	Comments
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness 1.00 - 1.10 mm	140 Â°F @Thickness 0.0394 - 0.0433 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness 1.00 - 1.10 mm	140 Â°F @Thickness 0.0394 - 0.0433 in	
Flammability, UL94	V-0 @Thickness 1.00 - 1.10 mm	V-0 @Thickness 0.0394 - 0.0433 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Middle Barrel Temperature	245 - 265 Â°C	473 - 509 Â°F	Injection Molding
Front Barrel Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Nozzle Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Melt Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 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

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