

LG Chemical LUPOY GN5001RFD PC/ABS, High Impact

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

Material Notes:

Description: Injection Molding, PC/ABS, General Purpose, High Impact, Halogen Free Flame retardant
Application: 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-GN5001RFD-PCABS-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Maximum Moisture Content	0.040	0.040	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	18 g/10 min @Load 2.16 kg, Temperature 250 Â°C	18 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.8 MPa @Thickness 3.20 mm	8530 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	93.2 MPa @Thickness 3.20 mm	13500 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.55 GPa @Thickness 3.20 mm	370 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 5.88 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 11.0 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Â°C @Thickness 6.40 mm	201 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
	60.0 Â°C	140 Â°F	

Thermal Properties	Metric @Thickness >=0.850 mm	English @Thickness >=0.0335 in	Comments
	60.0 Â°C	140 Â°F	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	
	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	
	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
Flammability, UL94	V-2	V-2	
	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	V-0	V-0	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 275 Â°C	428 - 527 Â°F	Injection Molding
Middle Barrel Temperature	220 - 275 Â°C	428 - 527 Â°F	Injection Molding
Front Barrel Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding
Nozzle Temperature	245 - 275 Â°C	473 - 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	80.0 - 90.0 Â°C	176 - 194 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding

Screw Speed Processing Properties	40 - 70 rpm Metric	40 - 70 rpm English	Injection Molding Comments
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