

LG Chemical LUPOY GP2200 PC+GF20%, Heat Resistance

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Description: Injection Molding, PC+GF20%, General Purpose, Heat Resistance Application: IT/OA, E&E Housing and Components, Automotive (Interior) CAS: 103598-77-2 and 65997-17-3 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GP2200-PCGF20-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	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	10 g/10 min @Load 1.20 kg, Temperature 300 Â°C	10 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	98.1 MPa @Thickness 3.20 mm	14200 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	5.0 % @Thickness 3.20 mm	5.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	157 MPa @Thickness 3.20 mm	22800 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	5.39 GPa @Thickness 3.20 mm	782 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 0.981 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 1.84 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C @Thickness 6.40 mm	284 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	^{80.0 Â°C} Metric	^{176 Â°F} English	Comments
UL RTI, Electrical	@Thickness 0.750 - 0.800 mm	@Thickness 0.0295 - 0.0315 in	
UL RTI, Mechanical with Impact	80.0 Â°C @Thickness 0.750 - 0.800 mm	176 Â°F @Thickness 0.0295 - 0.0315 in	
UL RTI, Mechanical without Impact	80.0 Â°C @Thickness 0.750 - 0.800 mm	176 Â°F @Thickness 0.0295 - 0.0315 in	
Flammability, UL94	V-2 @Thickness >=1.50 mm	V-2 @Thickness >=0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 300 Â°C	518 - 572 Â°F	Injection Molding
Middle Barrel Temperature	280 - 310 Â°C	536 - 590 Â°F	Injection Molding
Front Barrel Temperature	290 - 330 Â°C	554 - 626 Â°F	Injection Molding
Nozzle Temperature	290 - 330 Â°C	554 - 626 Â°F	Injection Molding
Melt Temperature	300 - 340 Â°C	572 - 644 Â°F	Injection Molding
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	Injection Molding
Drying Temperature	100 - 120 Â°C	212 - 248 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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