

LG Chemical LUPOY SC3154 PC+GF15%

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

Material Notes:

Description: Injection Molding, PC+GF15%, General Purpose, Good Toughness, Dimensional Stability, Good Surface, Chemical Resistance
Application: Mobile Phone Housing and Components
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-SC3154-PCGF15.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm @Thickness 3.20 mm	0.0040 - 0.0050 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	11 g/10 min @Load 1.20 kg, Temperature 300 Â°C	11 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Yield	47.1 MPa @Thickness 3.20 mm	6830 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	25 % @Thickness 3.20 mm	25 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	88.3 MPa @Thickness 3.20 mm	12800 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	3.04 GPa @Thickness 3.20 mm	441 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 2.16 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 4.04 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)	137 Â°C @Thickness 6.40 mm	279 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	Metric °C	English 176 Â°F	Comments
UL RTI, Electrical	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.10 mm	@Thickness >=0.122 in	
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.10 mm	@Thickness >=0.122 in	
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.10 mm	@Thickness >=0.122 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	HB	HB	
	@Thickness >=3.10 mm	@Thickness >=0.122 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 295 Â°C	536 - 563 Â°F	Injection Molding
Middle Barrel Temperature	285 - 300 Â°C	545 - 572 Â°F	Injection Molding
Front Barrel Temperature	290 - 305 Â°C	554 - 581 Â°F	Injection Molding
Nozzle Temperature	290 - 305 Â°C	554 - 581 Â°F	Injection Molding
Melt Temperature	295 - 310 Â°C	563 - 590 Â°F	Injection Molding
Mold Temperature	90.0 - 110 Â°C	194 - 230 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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