

LG Chemical LUPOY SC1004ML PC, High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Description: Injection Molding, PC, General Purpose, High Impact, Good Coloring, Chemical Resistance Application: Mobile Phone

Housing CAS: 103598-77-2 and 9046-16-6 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-SC1004ML-PC-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	56.9 MPa @Thickness 3.20 mm	8250 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	130 % @Thickness 3.20 mm	130 % @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	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 2.94 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	>= 5.51 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256
	>= 6.86 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 12.9 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)	130 °C @Thickness 6.40 mm	266 °F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	80.0 °C @Thickness >=0.700 mm	176 °F @Thickness >=0.0276 in	
UL RTI, Mechanical with Impact	80.0 °C @Thickness >=0.700 mm	176 °F @Thickness >=0.0276 in	
UL RTI, Mechanical without Impact	80.0 °C @Thickness >=0.700 mm	176 °F @Thickness >=0.0276 in	
Flammability, UL94	HB @Thickness >=0.700 mm	HB @Thickness >=0.0276 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	275 - 290 °C	527 - 554 °F	Injection Molding
Middle Barrel Temperature	285 - 305 °C	545 - 581 °F	Injection Molding
Front Barrel Temperature	290 - 310 °C	554 - 590 °F	Injection Molding
Nozzle Temperature	285 - 305 °C	545 - 581 °F	Injection Molding
Melt Temperature	290 - 310 °C	554 - 590 °F	Injection Molding
Mold Temperature	80.0 - 110 °C	176 - 230 °F	Injection Molding
Drying Temperature	100 - 110 °C	212 - 230 °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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