

LG Chemical LUPOY SC2302 PC+GF30%, High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled , Polycarbonate, Impact Modified

Material Notes:

Description: Injection Molding, PC+GF30%, Good Toughness, Good Impact, Chemical Resistance
Application: Mobile Phone Housing
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-SC2302-PCGF30-High-Impact.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|-------------------|
| Specific Gravity | 1.43 g/cc | 1.43 g/cc | ASTM D792 |
| Maximum Moisture Content | 0.020 | 0.020 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.010 - 0.030 cm/cm @Thickness 3.20 mm | 0.010 - 0.030 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 14 g/10 min @Load 2.16 kg, Temperature 300 Å°C | 14 g/10 min @Load 4.76 lb, Temperature 572 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|----------------------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength, Yield | 108 MPa @Thickness 3.20 mm | 15600 psi @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Elongation at Break | 6.0 % @Thickness 3.20 mm | 6.0 % @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Flexural Yield Strength | 177 MPa @Thickness 3.20 mm | 25600 psi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Flexural Modulus | 6.86 GPa @Thickness 3.20 mm | 996 ksi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Izod Impact, Notched | >= 1.96 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C | >= 3.67 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 140 Å°C @Thickness 6.40 mm | 284 Å°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 mm | @Thickness >=0.0295 in | |
| | 80.0 Â°C | 176 Â°F | |
| | @Thickness >=3.00 mm | @Thickness >=0.118 in | |
| UL RTI, Mechanical with Impact | 80.0 Â°C | 176 Â°F | |
| | @Thickness >=0.750 mm | @Thickness >=0.0295 in | |
| | 80.0 Â°C | 176 Â°F | |
| | @Thickness >=3.00 mm | @Thickness >=0.118 in | |
| UL RTI, Mechanical without Impact | 80.0 Â°C | 176 Â°F | |
| | @Thickness >=0.750 mm | @Thickness >=0.0295 in | |
| | 80.0 Â°C | 176 Â°F | |
| | @Thickness >=3.00 mm | @Thickness >=0.118 in | |
| Flammability, UL94 | HB | HB | |
| | @Thickness >=0.750 mm | @Thickness >=0.0295 in | |
| | HB | HB | |
| | @Thickness >=3.00 mm | @Thickness >=0.118 in | |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature | 280 - 295 Â°C | 536 - 563 Â°F | Injection Molding |
| Middle Barrel Temperature | 285 - 305 Â°C | 545 - 581 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 - 315 Â°C | 563 - 599 Â°F | Injection Molding |
| Mold Temperature | 100 - 140 Â°C | 212 - 284 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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