

LG Chemical LUPOY GN5001RFP PC/ABS, Halogen Free Flame Retardant, Heat Resistance

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

Material Notes:

Description: Injection Molding, PC/ABS, Halogen Free Flame Retardant, General Purpose Application: E&E (TV, Navigation 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-GN5001RFP-PCABS-Halogen-Free-Flame-Retardant-Heat-Resistance.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|-------------------|
| Specific Gravity | 1.18 g/cc | 1.18 g/cc | ASTM D792 |
| Maximum Moisture Content | 0.020 | 0.020 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0070 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 20 g/10 min @Load 2.16 kg, Temperature 250 Å°C | 20 g/10 min @Load 4.76 lb, Temperature 482 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|---------------------|
| Tensile Strength, Yield | 65.7 MPa @Thickness 3.20 mm | 9530 psi @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Elongation at Break | 80 % @Thickness 3.20 mm | 80 % @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Flexural Yield Strength | 98.1 MPa @Thickness 3.20 mm | 14200 psi @Thickness 0.126 in | 10mm/min; ASTM D790 |
| Flexural Modulus | 2.75 GPa @Thickness 3.20 mm | 398 ksi @Thickness 0.126 in | 10mm/min; ASTM D790 |
| Izod Impact, Notched | 1.18 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C | 2.20 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 110 Å°C @Thickness 6.40 mm | 230 Å°F @Thickness 0.252 in | Unannealed; ASTM D648 |

| UL RTI Electrical Thermal Properties | 80.0 Â°C Metric | 176 Â°F English | Comments |
|--------------------------------------|----------------------|------------------------|----------|
| UL RTI, Mechanical with Impact | 80.0 Â°C | 176 Â°F | |
| UL RTI, Mechanical without Impact | 85.0 Â°C | 185 Â°F | |
| Flammability, UL94 | V-0 | V-0 | |
| | @Thickness >=1.20 mm | @Thickness >=0.0472 in | |
| | V-0 | V-0 | |
| | @Thickness >=2.50 mm | @Thickness >=0.0984 in | |
| | V-0 | V-0 | |
| | @Thickness >=3.00 mm | @Thickness >=0.118 in | |

| Processing Properties | Metric | English | Comments |
|---------------------------|-----------------------|-------------------|-------------------|
| Rear Barrel Temperature | 240 - 265 Â°C | 464 - 509 Â°F | Injection Molding |
| Middle Barrel Temperature | 250 - 270 Â°C | 482 - 518 Â°F | Injection Molding |
| Front Barrel Temperature | 255 - 275 Â°C | 491 - 527 Â°F | Injection Molding |
| Nozzle Temperature | 260 - 280 Â°C | 500 - 536 Â°F | Injection Molding |
| Melt Temperature | 260 - 280 Â°C | 500 - 536 Â°F | Injection Molding |
| Mold Temperature | 70.0 - 90.0 Â°C | 158 - 194 Â°F | Injection Molding |
| Drying Temperature | 85.0 - 95.0 Â°C | 185 - 203 Â°F | Injection Molding |
| Dry Time | 3.00 - 4.00 hour | 3.00 - 4.00 hour | Injection Molding |
| Back Pressure | 0.00200 - 0.00600 MPa | 0.290 - 0.870 psi | Injection Molding |
| Screw Speed | 40 - 70 rpm | 40 - 70 rpm | Injection Molding |

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