

LG Chemical LUPOL HI5204 PP+MF20%, High Impact

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced, Impact Modified

Material Notes:

Description: Injection Molding, PP+MF20%, High Impact, Good Weatherability
Application: Automotive Interior Parts
CAS: 9003-07-0, 26221-73-8 and 14807-96-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-HI5204-PPMF20-High-Impact.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|-------------------|
| Specific Gravity | 1.06 g/cc | 1.06 g/cc | ASTM D792 |
| Maximum Moisture Content | 0.010 | 0.010 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.011 - 0.013 cm/cm @Thickness 3.20 mm | 0.011 - 0.013 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 5.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C | 5.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|---|---------------------|
| Tensile Strength, Yield | 25.0 MPa @Thickness 3.20 mm | 3630 psi @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Elongation at Break | 85 % @Thickness 3.20 mm | 85 % @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Flexural Yield Strength | 37.3 MPa @Thickness 6.40 mm | 5400 psi @Thickness 0.252 in | 30mm/min; ASTM D790 |
| Flexural Modulus | 2.26 GPa @Thickness 6.40 mm | 327 ksi @Thickness 0.252 in | 30mm/min; ASTM D790 |
| Izod Impact, Notched | >= 0.441 J/cm @Thickness 6.40 mm, Temperature -10.0 Â°C | >= 0.827 ft-lb/in @Thickness 0.252 in, Temperature 14.0 Â°F | ASTM D256 |
| | >= 1.96 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C | >= 3.67 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|---------|---------|----------|
| Deflection Temperature at 0.46 MPa | 130 Â°C | 266 Â°F | |

| (55 psi) Thermal Properties | Metric @ Thickness 3.20 mm | English @ Thickness 0.126 in | Unannealed; ASTM D648 Comments |
|--------------------------------|-------------------------------|---------------------------------|-----------------------------------|
|--------------------------------|-------------------------------|---------------------------------|-----------------------------------|

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature | 190 - 210 Å°C | 374 - 410 Å°F | Injection Molding |
| Middle Barrel Temperature | 200 - 230 Å°C | 392 - 446 Å°F | Injection Molding |
| Front Barrel Temperature | 200 - 230 Å°C | 392 - 446 Å°F | Injection Molding |
| Nozzle Temperature | 210 - 230 Å°C | 410 - 446 Å°F | Injection Molding |
| Melt Temperature | 200 - 230 Å°C | 392 - 446 Å°F | Injection Molding |
| Mold Temperature | 40.0 - 60.0 Å°C | 104 - 140 Å°F | Injection Molding |
| Drying Temperature | 70.0 - 80.0 Å°C | 158 - 176 Å°F | Injection Molding |
| Dry Time | 3.00 - 4.00 hour | 3.00 - 4.00 hour | Injection Molding |
| Back Pressure | 29.4 - 58.8 MPa | 4260 - 8530 psi | Injection Molding |
| Screw Speed | 30 - 60 rpm | 30 - 60 rpm | Injection Molding |

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