

LG Chemical LUMID HI5001AS PA6/PO, High Barrier Property, CaCl₂ Resistance, High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Feature: Injection Molding, PA6/PO, High Barrier Property, CaCl₂ Resistance, High Impact Application: Automotive (Fuel System Tube) CAS No. 25038-54-4, 9010-79-1, 9002-88-4 and 105-60-2 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5001AS-PA6PO-High-Barrier-Property-CaCl₂-Resistance-High-Impact.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5001AS-PA6PO-High-Barrier-Property-CaCl2-Resistance-High-Impact.php)

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ASTM D792 |
| Water Absorption | 0.50 % | 0.50 % | ASTM D570 |
| | @Temperature 23.0 Å°C, Time 86400 sec | @Temperature 73.4 Å°F, Time 24.0 hour | |
| Melt Flow | 1.0 g/10 min | 1.0 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 235 Å°C | @Load 4.76 lb, Temperature 455 Å°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|---------------------|
| Tensile Strength, Yield | 41.7 MPa | 6040 psi | 50mm/min; ASTM D638 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Elongation at Break | 330 % | 330 % | 50mm/min; ASTM D638 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Flexural Yield Strength | 20.1 MPa | 2920 psi | 10mm/min; ASTM D790 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Flexural Modulus | 0.481 GPa | 69.7 ksi | 10mm/min; ASTM D790 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Izod Impact, Notched | 1.37 J/cm | 2.57 ft-lb/in | ASTM D256 |
| | @Thickness 6.40 mm, Temperature -40.0 Å°C | @Thickness 0.252 in, Temperature -40.0 Å°F | |
| | NB | NB | ASTM D256 |
| | @Thickness 6.40 mm, Temperature 23.0 Å°C | @Thickness 0.252 in, Temperature 73.4 Å°F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Rear Barrel Temperature Processing Properties | 235 - 250 Å°C Metric | 455 - 482 Å°F English | Injection Molding Comments |
|--|-------------------------|--------------------------|-------------------------------|
| Middle Barrel Temperature | 240 - 260 Å°C | 464 - 500 Å°F | Injection Molding |
| Front Barrel Temperature | 240 - 260 Å°C | 464 - 500 Å°F | Injection Molding |
| Nozzle Temperature | 250 - 265 Å°C | 482 - 509 Å°F | Injection Molding |
| Melt Temperature | 250 - 265 Å°C | 482 - 509 Å°F | Injection Molding |
| Mold Temperature | 80.0 - 100 Å°C | 176 - 212 Å°F | Injection Molding |
| Drying Temperature | 70.0 - 90.0 Å°C | 158 - 194 Å°F | Injection Molding |
| Dry Time | 4.00 - 5.00 hour | 4.00 - 5.00 hour | Injection Molding |

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