

LG Chemical LUPOL MC4352 PP+Rubber+MF

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

Material Notes:

Description: Injection Molding, PP+Rubber+MF, Good Dimensional Stability, Scratch resistance, Good Weatherability, High

ImpactApplication: Automotive Exterior (Sill Side Molding, Door Garnish)CAS: 9003-07-0, 26221-73-8 and 14807-96-6Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-MC4352-PPRubberMF.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|-------------------|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | ASTM D792 |
| Maximum Moisture Content | 0.010 | 0.010 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.050 - 0.060 cm/cm @Thickness 3.20 mm | 0.050 - 0.060 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 21 g/10 min @Load 2.16 kg, Temperature 230 Å°C | 21 g/10 min @Load 4.76 lb, Temperature 446 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|---|---------------------|
| Tensile Strength, Yield | 16.7 MPa @Thickness 3.20 mm | 2420 psi @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Elongation at Break | 100 % @Thickness 3.20 mm | 100 % @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Flexural Yield Strength | 27.5 MPa @Thickness 6.40 mm | 3980 psi @Thickness 0.252 in | 10mm/min; ASTM D790 |
| Flexural Modulus | 1.67 GPa @Thickness 6.40 mm | 242 ksi @Thickness 0.252 in | 10mm/min; ASTM D790 |
| Izod Impact, Notched | >= 0.441 J/cm @Thickness 6.40 mm, Temperature -10.0 Å°C | >= 0.827 ft-lb/in @Thickness 0.252 in, Temperature 14.0 Å°F | ASTM D256 |
| | >= 3.92 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C | >= 7.35 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties | Metric | English | Comments |
|--|--------------------|---------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | @Thickness 3.20 mm | @Thickness 0.126 in | Unannealed, ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature | 190 - 210 Â°C | 374 - 410 Â°F | Injection Molding |
| Middle Barrel Temperature | 200 - 230 Â°C | 392 - 446 Â°F | Injection Molding |
| Front Barrel Temperature | 200 - 230 Â°C | 392 - 446 Â°F | Injection Molding |
| Nozzle Temperature | 210 - 230 Â°C | 410 - 446 Â°F | Injection Molding |
| Melt Temperature | 200 - 230 Â°C | 392 - 446 Â°F | Injection Molding |
| Mold Temperature | 40.0 - 60.0 Â°C | 104 - 140 Â°F | Injection Molding |
| Drying Temperature | 70.0 - 80.0 Â°C | 158 - 176 Â°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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