

LG Chemical LUCEL GC240 POM+GF40%, High Rigidity

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Feature: Injection Molding, POM+GF40%, High Rigidity
 Application: Casings of Pump and Pivot Bearings
 CAS No. 66455-31-0 and 65997-17-3
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-GC240-POMGF40-High-Rigidity.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|-------------------|
| Specific Gravity | 1.72 g/cc | 1.72 g/cc | ASTM D792 |
| Maximum Moisture Content | 0.10 | 0.10 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0030 - 0.0070 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 7.0 g/10 min @Load 2.16 kg, Temperature 190 Å°C | 7.0 g/10 min @Load 4.76 lb, Temperature 374 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|----------------------|
| Hardness, Rockwell R | 87 | 87 | ASTM D785 |
| Tensile Strength, Yield | 147 MPa @Thickness 3.20 mm | 21300 psi @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Elongation at Break | 3.0 % @Thickness 3.20 mm | 3.0 % @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Flexural Yield Strength | 275 MPa @Thickness 3.20 mm | 39800 psi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Flexural Modulus | 11.8 GPa @Thickness 3.20 mm | 1710 ksi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Izod Impact, Notched | 1.18 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C | 2.20 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 165 Å°C @Thickness 6.40 mm | 329 Å°F @Thickness 0.252 in | Unannealed; ASTM D648 |

| Thermal Properties | Metric | English | Comments |
|---|-----------------------|------------------------|-----------------------|
| Thermal Stability at 1.8 MPa (264 psi) | 165 Å°C | 329 Å°F | Unannealed; ASTM D648 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Flammability, UL94 | V-2 | V-2 | |
| | @Thickness >=0.800 mm | @Thickness >=0.0315 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | ASTM D257 |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature | 180 - 200 Å°C | 356 - 392 Å°F | Injection Molding |
| Middle Barrel Temperature | 190 - 210 Å°C | 374 - 410 Å°F | Injection Molding |
| Front Barrel Temperature | 200 - 220 Å°C | 392 - 428 Å°F | Injection Molding |
| Nozzle Temperature | 200 - 220 Å°C | 392 - 428 Å°F | Injection Molding |
| Melt Temperature | 210 - 220 Å°C | 410 - 428 Å°F | Injection Molding |
| Mold Temperature | 60.0 - 100 Å°C | 140 - 212 Å°F | Injection Molding |
| Drying Temperature | 90.0 - 110 Å°C | 194 - 230 Å°F | Injection Molding |
| Dry Time | 2.00 - 3.00 hour | 2.00 - 3.00 hour | Injection Molding |
| Back Pressure | 0.000 - 4.02 MPa | 0.000 - 583 psi | Injection Molding |
| Screw Speed | 40 - 75 rpm | 40 - 75 rpm | Injection Molding |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China