

LG Chemical Lupox[®] SV1120M PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Description: Injection Molding, PBT, General Purpose, High Viscosity
 Application: Films & Sheets, Optical Loose Tube
 CAS No. 65997-17-3 and 24968-12-5
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-SV1120M-PBT.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|-------------------|
| Specific Gravity | 1.31 g/cc | 1.31 g/cc | ASTM D792 |
| Water Absorption | 0.080 % @Temperature 23.0 °C, Time 86400 sec | 0.080 % @Temperature 73.4 °F, Time 24.0 hour | ASTM D570 |
| Maximum Moisture Content | 0.020 | 0.020 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.018 - 0.021 cm/cm @Thickness 3.20 mm | 0.018 - 0.021 in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | 10 g/10 min @Load 2.16 kg, Temperature 260 °C | 10 g/10 min @Load 4.76 lb, Temperature 500 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|----------------------|
| Tensile Strength at Break | 47.1 MPa @Thickness 3.20 mm | 6830 psi @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Elongation at Break | >= 200 % @Thickness 3.20 mm | >= 200 % @Thickness 0.126 in | 50mm/min; ASTM D638 |
| Flexural Yield Strength | 83.4 MPa @Thickness 3.20 mm | 12100 psi @Thickness 0.126 in | 2.8mm/min; ASTM D790 |
| Flexural Modulus | 2.45 GPa @Thickness 3.20 mm | 356 ksi @Thickness 0.126 in | 2.8mm/min; ASTM D790 |
| Izod Impact, Notched | 0.392 J/cm @Thickness 3.20 mm, Temperature 23.0 °C | 0.735 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F | ASTM D256 |

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

| Melting Point Thermal Properties | 225 Å°C Metric | 437 Å°F English | @ Break: ASTM D3418 Comments |
|--|--------------------------------|--------------------------------|---------------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 154 Å°C @Thickness 6.40 mm | 309 Å°F @Thickness 0.252 in | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 57.0 Å°C @Thickness 6.40 mm | 135 Å°F @Thickness 0.252 in | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature | 230 - 240 Å°C | 446 - 464 Å°F | Injection Molding |
| Middle Barrel Temperature | 240 - 250 Å°C | 464 - 482 Å°F | Injection Molding |
| Front Barrel Temperature | 250 - 260 Å°C | 482 - 500 Å°F | Injection Molding |
| Nozzle Temperature | 250 - 260 Å°C | 482 - 500 Å°F | Injection Molding |
| Mold Temperature | 40.0 - 80.0 Å°C | 104 - 176 Å°F | Injection Molding |
| Drying Temperature | 100 - 120 Å°C | 212 - 248 Å°F | Injection Molding |
| Dry Time | 3.00 - 5.00 hour | 3.00 - 5.00 hour | Injection Molding |

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