

General Information
Product Description

 Description
 Flame Retardant

 Application
 Electric & Electronic (Housing, Components)

General

| | |
|------------------------|--|
| Material Status | • Commercial: Active |
| Availability | • Asia Pacific • Europe • Latin America • North America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Features | • Flame Retardant |
| Uses | • Electrical Housing • Electrical/Electronic Applications |
| Processing Method | • Injection Molding |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Density / Specific Gravity | 1.34 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (250°C/5.0 kg) | 8.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded) | 0.20 to 0.30 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² | | | ASTM D638 |
| Yield, 23°C, 3.20 mm, Injection Molded | 88.3 | MPa | |
| Tensile Elongation ² | | | ASTM D638 |
| Break, 23°C, 3.20 mm, Injection Molded | 4.0 | % | |
| Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded) | 4900 | MPa | ASTM D790 |
| Flexural Strength ³ (23°C, 3.20 mm, Injection Molded) | 118 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 6.20 mm, Injection Molded) | 59 | J/m | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 23°C, Injection Molded) | 114 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 1.8 MPa, Unannealed, 6.40 mm, Injection Molded | 103 | °C | |
| RTI Elec | 60.0 | °C | UL 746 |
| RTI Imp | 60.0 | °C | UL 746 |
| RTI Str | 60.0 | °C | UL 746 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.5 mm) | V-0 | | UL 94 |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 80 to 100 | °C |

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Lupos® GP2206F

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Time | 3.0 to 4.0 | hr |
| Suggested Max Moisture | 0.020 | % |
| Rear Temperature | 220 to 235 | °C |
| Middle Temperature | 220 to 240 | °C |
| Front Temperature | 220 to 240 | °C |
| Nozzle Temperature | 230 to 245 | °C |
| Processing (Melt) Temp | 235 to 245 | °C |
| Mold Temperature | 50 to 80 | °C |
| Back Pressure | 0.981 to 3.92 | MPa |
| Screw Speed | 40 to 80 | rpm |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 5.0 mm/min

³ 1.3 mm/min