

# Lupoy® GP2300

Polycarbonate

LG Chem Ltd.

## Message:

Description

General Purpose, Heat Resistance

Application

IT/OA, E&E Housing and Components, Automotive (Interior)

| General Information                                                            |                                    |                   |                   |
|--------------------------------------------------------------------------------|------------------------------------|-------------------|-------------------|
| UL YellowCard                                                                  | E67171-248558                      | E67171-100608709  | E353371-101107280 |
| Filler / Reinforcement                                                         | Glass Fiber,30% Filler by Weight   |                   |                   |
| Features                                                                       | General Purpose                    |                   |                   |
|                                                                                | Medium Heat Resistance             |                   |                   |
| Uses                                                                           | Automotive Interior Parts          |                   |                   |
|                                                                                | Electrical/Electronic Applications |                   |                   |
| Processing Method                                                              | Injection Molding                  |                   |                   |
| Physical                                                                       | Nominal Value                      | Unit              | Test Method       |
| Specific Gravity                                                               | 1.43                               | g/cm <sup>3</sup> | ASTM D792         |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                                       | 14                                 | g/10 min          | ASTM D1238        |
| Molding Shrinkage - Flow (3.20 mm)                                             | 0.10 to 0.30                       | %                 | ASTM D955         |
| Hardness                                                                       | Nominal Value                      | Unit              | Test Method       |
| Rockwell Hardness (R-Scale)                                                    | 120                                |                   | ASTM D785         |
| Mechanical                                                                     | Nominal Value                      | Unit              | Test Method       |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)                                 | 118                                | MPa               | ASTM D638         |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)                               | 4.0                                | %                 | ASTM D638         |
| Flexural Modulus <sup>3</sup> (3.20 mm)                                        | 7350                               | MPa               | ASTM D790         |
| Flexural Strength <sup>4</sup> (Yield, 3.20 mm)                                | 177                                | MPa               | ASTM D790         |
| Impact                                                                         | Nominal Value                      | Unit              | Test Method       |
| Notched Izod Impact (23°C, 3.20 mm)                                            | 110                                | J/m               | ASTM D256         |
| Thermal                                                                        | Nominal Value                      | Unit              | Test Method       |
| Deflection Temperature Under Load <sup>5</sup> (0.45 MPa, Unannealed, 6.40 mm) | 140                                | °C                | ASTM D648         |
| RTI Elec                                                                       | 80.0                               | °C                | UL 746            |
| RTI Imp                                                                        | 80.0                               | °C                | UL 746            |
| RTI Str                                                                        | 80.0                               | °C                | UL 746            |
| Injection                                                                      | Nominal Value                      | Unit              |                   |
| Drying Temperature                                                             | 100 to 120                         | °C                |                   |
| Drying Time                                                                    | 3.0 to 5.0                         | hr                |                   |

|                        |               |     |
|------------------------|---------------|-----|
| Suggested Max Moisture | < 0.020       | %   |
| Rear Temperature       | 270 to 300    | °C  |
| Middle Temperature     | 280 to 310    | °C  |
| Front Temperature      | 290 to 330    | °C  |
| Nozzle Temperature     | 290 to 330    | °C  |
| Processing (Melt) Temp | 300 to 340    | °C  |
| Mold Temperature       | 90.0 to 120   | °C  |
| Back Pressure          | 0.981 to 3.92 | MPa |
| Screw Speed            | 40 to 70      | rpm |

#### NOTE

- |    |            |
|----|------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 10 mm/min  |
| 4. | 10 mm/min  |
| 5. | 18.6kg     |

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