

# Lupox® GP2306F

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description  
Flame Retardant  
Application  
IT/OA, E&E(Connector)

| General Information                                              |                                             |                   |                |
|------------------------------------------------------------------|---------------------------------------------|-------------------|----------------|
| UL YellowCard                                                    | E302314-530022                              | E67171-248574     | E248280-533893 |
| Features                                                         | E353371-101107257                           |                   |                |
|                                                                  | Flame Retardant                             |                   |                |
|                                                                  | Good Electrical Properties                  |                   |                |
| Uses                                                             | Electrical Parts                            |                   |                |
|                                                                  | Electrical/Electronic Applications          |                   |                |
| Processing Method                                                | Injection Molding                           |                   |                |
| Multi-Point Data                                                 | Isothermal Stress vs. Strain (ISO 11403-1)  |                   |                |
|                                                                  | Secant Modulus vs. Strain (ISO 11403-1)     |                   |                |
|                                                                  | Specific Heat vs. Temperature (ISO 11403-2) |                   |                |
|                                                                  | Viscosity vs. Shear Rate (ISO 11403-2)      |                   |                |
| Physical                                                         | Nominal Value                               | Unit              | Test Method    |
| Specific Gravity                                                 | 1.62                                        | g/cm <sup>3</sup> | ASTM D792      |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)                        | 10                                          | g/10 min          | ASTM D1238     |
| Molding Shrinkage - Flow                                         | 0.30 to 1.0                                 | %                 | ASTM D955      |
| Water Absorption (23°C, 24 hr)                                   | 0.070                                       | %                 | ASTM D570      |
| Mechanical                                                       | Nominal Value                               | Unit              | Test Method    |
| Tensile Strength <sup>1</sup> (Break, 3.20 mm)                   | 132                                         | MPa               | ASTM D638      |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)                 | 2.0                                         | %                 | ASTM D638      |
| Flexural Modulus <sup>3</sup> (3.20 mm)                          | 8830                                        | MPa               | ASTM D790      |
| Flexural Strength <sup>4</sup> (Yield, 3.20 mm)                  | 191                                         | MPa               | ASTM D790      |
| Impact                                                           | Nominal Value                               | Unit              | Test Method    |
| Notched Izod Impact (23°C, 6.40 mm)                              | 69                                          | J/m               | ASTM D256      |
| Thermal                                                          | Nominal Value                               | Unit              | Test Method    |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 210                                         | °C                | ASTM D648      |
| Peak Melting Temperature                                         | 223                                         | °C                | ASTM D3418     |
| RTI Elec                                                         | 140                                         | °C                | UL 746         |

|                               |               |         |             |
|-------------------------------|---------------|---------|-------------|
| RTI Imp                       | 140           | °C      | UL 746      |
| RTI Str                       | 140           | °C      | UL 746      |
| Electrical                    | Nominal Value | Unit    | Test Method |
| Volume Resistivity            | 1.0E+17       | ohms·cm | ASTM D257   |
| Dielectric Strength (1.00 mm) | 28            | kV/mm   | ASTM D149   |
| Arc Resistance                | PLC 6         |         | ASTM D495   |
| Flammability                  | Nominal Value | Unit    | Test Method |
| Flame Rating                  |               |         | UL 94       |
| 0.710 mm                      | V-0           |         |             |
| 1.50 mm                       | V-0           |         |             |
| 3.30 mm                       | V-0           |         |             |
| Injection                     | Nominal Value | Unit    |             |
| Drying Temperature            | 110 to 120    | °C      |             |
| Drying Time                   | 4.0 to 6.0    | hr      |             |
| Suggested Max Moisture        | 0.020         | %       |             |
| Rear Temperature              | 240 to 245    | °C      |             |
| Middle Temperature            | 245 to 250    | °C      |             |
| Front Temperature             | 250 to 255    | °C      |             |
| Nozzle Temperature            | 250 to 265    | °C      |             |
| Processing (Melt) Temp        | 250 to 265    | °C      |             |
| Mold Temperature              | 40.0 to 80.0  | °C      |             |
| NOTE                          |               |         |             |
| 1.                            | 5.0 mm/min    |         |             |
| 2.                            | 5.0 mm/min    |         |             |
| 3.                            | 1.3 mm/min    |         |             |
| 4.                            | 1.3 mm/min    |         |             |

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