

# Lupox® TE5000LZ

Polycarbonate + PBT

LG Chem Ltd.

## Message:

Description

High Impact, Dimensional Stability, Good Weatherability

Application

Automotive(Door Garnish)

| General Information                              |                            |                   |             |
|--------------------------------------------------|----------------------------|-------------------|-------------|
| Features                                         | Good Dimensional Stability |                   |             |
|                                                  | Good Weather Resistance    |                   |             |
|                                                  | High Impact Resistance     |                   |             |
| Uses                                             | Automotive Applications    |                   |             |
| Processing Method                                | Injection Molding          |                   |             |
| Physical                                         | Nominal Value              | Unit              | Test Method |
| Specific Gravity                                 | 1.22                       | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)         | 17                         | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)               | 0.70 to 1.0                | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                   | 0.080                      | %                 | ASTM D570   |
| Mechanical                                       | Nominal Value              | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)   | 56.9                       | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | > 100                      | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (6.40 mm)          | 2110                       | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (Yield, 6.40 mm)  | 79.4                       | MPa               | ASTM D790   |
| Impact                                           | Nominal Value              | Unit              | Test Method |
| Notched Izod Impact                              |                            |                   | ASTM D256   |
| -30°C, 6.40 mm                                   | 170                        | J/m               |             |
| 23°C, 6.40 mm                                    | 690                        | J/m               |             |
| Thermal                                          | Nominal Value              | Unit              | Test Method |
| Deflection Temperature Under Load                |                            |                   | ASTM D648   |
| 0.45 MPa, Unannealed, 6.40 mm                    | 115                        | °C                |             |
| 1.8 MPa, Unannealed, 6.40 mm                     | 105                        | °C                |             |
| Peak Melting Temperature                         | 223                        | °C                | ASTM D3418  |
| Injection                                        | Nominal Value              | Unit              |             |
| Drying Temperature                               | 120                        | °C                |             |
| Drying Time                                      | 4.0 to 5.0                 | hr                |             |
| Suggested Max Moisture                           | < 0.020                    | %                 |             |
| Rear Temperature                                 | 250 to 260                 | °C                |             |
| Middle Temperature                               | 250 to 260                 | °C                |             |

|                        |              |    |
|------------------------|--------------|----|
| Front Temperature      | 255 to 265   | °C |
| Nozzle Temperature     | 260 to 270   | °C |
| Processing (Melt) Temp | 260 to 270   | °C |
| Mold Temperature       | 60.0 to 80.0 | °C |

| NOTE |            |  |
|------|------------|--|
| 1.   | 50 mm/min  |  |
| 2.   | 50 mm/min  |  |
| 3.   | 2.5 mm/min |  |
| 4.   | 2.5 mm/min |  |

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