

# Sunny® PBT EN100

Polybutylene Terephthalate

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP polybutylene terephthalate

| General Information                       |                   |                   |                      |
|-------------------------------------------|-------------------|-------------------|----------------------|
| RoHS Compliance                           | RoHS Compliant    |                   |                      |
| Processing Method                         | Injection Molding |                   |                      |
| Physical                                  | Nominal Value     | Unit              | Test Method          |
| Specific Gravity                          |                   |                   |                      |
| -- <sup>1</sup>                           | 1.31              | g/cm <sup>3</sup> | ASTM D792            |
| 23°C                                      | 1.31              | g/cm <sup>3</sup> | ISO 1183             |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 78                | g/10 min          | ASTM D1238, ISO 1133 |
| Molding Shrinkage                         |                   |                   |                      |
| Flow : 23°C                               | 1.7 to 2.3        | %                 | ASTM D955            |
| 23°C                                      | 1.7 to 2.3        | %                 | ISO 294-4            |
| Water Absorption                          |                   |                   |                      |
| Equilibrium, 23°C                         | 0.080             | %                 | ASTM D570            |
| Equilibrium, 23°C, 50% RH                 | 0.080             | %                 | ISO 62               |
| Mechanical                                | Nominal Value     | Unit              | Test Method          |
| Tensile Strength                          |                   |                   |                      |
| -- <sup>2</sup>                           | 58.0              | MPa               | ASTM D638            |
| --                                        | 58.0              | MPa               | ISO 527-2/5          |
| Tensile Elongation                        |                   |                   |                      |
| Break <sup>3</sup>                        | 26                | %                 | ASTM D638            |
| Break                                     | 28                | %                 | ISO 527-2/5          |
| Flexural Modulus                          |                   |                   |                      |
| 50.0 mm Span                              | 1450              | MPa               | ASTM D790            |
| -- <sup>4</sup>                           | 1500              | MPa               | ISO 178              |
| Flexural Strength                         |                   |                   |                      |
| 50.0 mm Span                              | 62.0              | MPa               | ASTM D790            |
| -- <sup>5</sup>                           | 64.0              | MPa               | ISO 178              |
| Impact                                    | Nominal Value     | Unit              | Test Method          |
| Notched Izod Impact                       |                   |                   |                      |
| 23°C                                      | 53                | J/m               | ASTM D256            |
| 23°C <sup>6</sup>                         | 5.0               | kJ/m <sup>2</sup> | ISO 180/1A           |
| Flammability                              | Nominal Value     | Test Method       |                      |
| Flame Rating                              |                   |                   | UL 94                |

| 1.60 mm                | HB            |      |
|------------------------|---------------|------|
| 3.20 mm                | HB            |      |
| Injection              | Nominal Value | Unit |
| Drying Temperature     | 105 to 115    | °C   |
| Drying Time            | 4.0 to 6.0    | hr   |
| Rear Temperature       | 240           | °C   |
| Middle Temperature     | 235           | °C   |
| Front Temperature      | 220           | °C   |
| Processing (Melt) Temp | 240           | °C   |
| Mold Temperature       | 80.0          | °C   |
| Injection Rate         | Moderate-Fast |      |
| NOTE                   |               |      |
| 1.                     | 23°C          |      |
| 2.                     | 5.0 mm/min    |      |
| 3.                     | 5.0 mm/min    |      |
| 4.                     | 2.0 mm/min    |      |
| 5.                     | 2.0 mm/min    |      |
| 6.                     | 3.2mm         |      |

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