

# Sunny® PET EN230

Polyethylene Terephthalate

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP Flame retardant reinforced polybutylene terephthalate

| General Information       |                                  |                   |             |
|---------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement    | Glass Fiber,30% Filler by Weight |                   |             |
| Features                  | Flame Retardant                  |                   |             |
| RoHS Compliance           | RoHS Compliant                   |                   |             |
| Processing Method         | Injection Molding                |                   |             |
| Physical                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity          |                                  |                   |             |
| -- <sup>1</sup>           | 1.65                             | g/cm <sup>3</sup> | ASTM D792   |
| 23°C                      | 1.65                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage         |                                  |                   |             |
| Flow : 23°C               | 0.30 to 0.60                     | %                 | ASTM D955   |
| 23°C                      | 0.30 to 0.60                     | %                 | ISO 294-4   |
| Water Absorption          |                                  |                   |             |
| Equilibrium, 23°C         | 0.10                             | %                 | ASTM D570   |
| Equilibrium, 23°C, 50% RH | 0.10                             | %                 | ISO 62      |
| Mechanical                | Nominal Value                    | Unit              | Test Method |
| Tensile Strength          |                                  |                   |             |
| -- <sup>2</sup>           | 100                              | MPa               | ASTM D638   |
| --                        | 100                              | MPa               | ISO 527-2/5 |
| Tensile Elongation        |                                  |                   |             |
| Break <sup>3</sup>        | 1.9                              | %                 | ASTM D638   |
| Break                     | 2.0                              | %                 | ISO 527-2/5 |
| Flexural Modulus          |                                  |                   |             |
| 50.0 mm Span              | 5820                             | MPa               | ASTM D790   |
| 50.0 mm Span              | 6000                             | MPa               | ISO 178     |
| Flexural Strength         |                                  |                   |             |
| 50.0 mm Span              | 145                              | MPa               | ASTM D790   |
| -- <sup>4</sup>           | 150                              | MPa               | ISO 178     |
| Impact                    | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact       |                                  |                   |             |
| 23°C                      | 64                               | J/m               | ASTM D256   |
| 23°C                      | 6.0                              | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                   | Nominal Value                    | Unit              | Test Method |

|                                                                  |               |      |                        |
|------------------------------------------------------------------|---------------|------|------------------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 220           | °C   | ASTM D648, ISO 75-2/Af |
| Flammability                                                     | Nominal Value |      | Test Method            |
| Flame Rating                                                     |               |      | UL 94                  |
| 1.60 mm                                                          | V-0           |      |                        |
| 3.20 mm                                                          | V-0           |      |                        |
| Injection                                                        | Nominal Value | Unit |                        |
| Drying Temperature                                               | 110 to 120    | °C   |                        |
| Drying Time                                                      | 4.0 to 6.0    | hr   |                        |
| Rear Temperature                                                 | 260           | °C   |                        |
| Middle Temperature                                               | 250           | °C   |                        |
| Front Temperature                                                | 245           | °C   |                        |
| Processing (Melt) Temp                                           | 255           | °C   |                        |
| Mold Temperature                                                 | 90.0          | °C   |                        |
| Injection Rate                                                   | Moderate-Fast |      |                        |
| NOTE                                                             |               |      |                        |
| 1.                                                               | 23°C          |      |                        |
| 2.                                                               | 5.0 mm/min    |      |                        |
| 3.                                                               | 5.0 mm/min    |      |                        |
| 4.                                                               | 50 mm span    |      |                        |

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