

ECOVYLOPET® EMC2301E

Polyethylene Terephthalate

TOYOBO America, Inc.

Message:

Features

1. Having made significant improvement in appearances, fluidity and mold release easiness, ECOVYLOPET® can be processed much easier than general PET for injection molding.
2. It is adaptable for large auto-parts and industrial product parts.
3. With a specific miscibility method, its impact resistance has greatly been enhanced.

| General Information | | | |
|--------------------------------|------------------------------|-------------------|-------------|
| Filler / Reinforcement | Filler, 15% Filler by Weight | | |
| Features | Good Flow | | |
| | Good Impact Resistance | | |
| | Good Mold Release | | |
| | Good Processability | | |
| | Pleasing Surface Appearance | | |
| | Recyclable Material | | |
| Uses | Automotive Applications | | |
| | Automotive Under the Hood | | |
| | Bottles | | |
| | Industrial Applications | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.35 | g/cm ³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow : 2.00 mm | 1.2 | % | |
| Across Flow : 2.00 mm | 1.2 | % | |
| Water Absorption (23°C, 24 hr) | 0.050 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 90 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3800 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 65.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Strength (Yield) | 105 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 45 | J/m | ASTM D256 |

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 205 | °C | ASTM D648 |
| CLTE - Flow | 4.5E-5 | cm/cm/°C | ASTM D696 |
| Additional Information | Nominal Value | Unit | |
| Flexibility Modulus | 3.7 | % | |
| Injection | Nominal Value | Unit | |
| Mold Temperature | 120 | °C | |

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