

# DURANEX® 2002U

Polybutylene Terephthalate

Polyplastics Co., Ltd.

## Message:

HB, Standard, Unfilled, Weather resistance

| General Information                               |                         |                   |                 |
|---------------------------------------------------|-------------------------|-------------------|-----------------|
| Features                                          | Good weather resistance |                   |                 |
| UL File Number                                    | E213445                 |                   |                 |
| Forms                                             | Particle                |                   |                 |
| Processing Method                                 | Injection molding       |                   |                 |
| Part Marking Code (ISO 11469)                     | >PBT                    |                   |                 |
| Physical                                          | Nominal Value           | Unit              | Test Method     |
| Density                                           | 1.31                    | g/cm <sup>3</sup> | ISO 1183        |
| Water Absorption (23°C, 24 hr)                    | 0.20                    | %                 | ISO 62          |
| Mechanical                                        | Nominal Value           | Unit              | Test Method     |
| Tensile Stress                                    | 60.0                    | MPa               | ISO 527-2       |
| Nominal Tensile Strain at Break                   | 100                     | %                 | ISO 527-2       |
| Flexural Modulus                                  | 2630                    | MPa               | ISO 178         |
| Flexural Stress                                   | 95.0                    | MPa               | ISO 178         |
| Impact                                            | Nominal Value           | Unit              | Test Method     |
| Charpy Notched Impact Strength                    | 3.4                     | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Thermal                                           | Nominal Value           | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 70.0                    | °C                | ISO 75-2/A      |
| Linear thermal expansion coefficient              |                         |                   | Internal method |
| Flow: 23 to 55°C                                  | 1.1E-4                  | cm/cm/°C          | Internal method |
| Lateral: 23 to 55°C                               | 1.1E-4                  | cm/cm/°C          | Internal method |
| Electrical                                        | Nominal Value           | Unit              | Test Method     |
| Volume Resistivity                                | 5.0E+16                 | ohms · cm         | IEC 60093       |
| Dielectric Strength (3.00 mm)                     | 14                      | kV/mm             | IEC 60243-1     |
| Flammability                                      | Nominal Value           | Unit              | Test Method     |
| Flame Rating                                      | HB                      |                   | UL 94           |
| Additional Information                            | Nominal Value           |                   |                 |
| Color Number                                      | EF2001/ED3002           |                   |                 |
| Injection                                         | Nominal Value           | Unit              |                 |
| Drying Temperature                                | 120 - 140               | °C                |                 |
| Drying Time                                       | 3.0 - 5.0               | hr                |                 |
| Processing (Melt) Temp                            | 250 - 270               | °C                |                 |
| Mold Temperature                                  | 40.0 - 80.0             | °C                |                 |

|                        |            |     |
|------------------------|------------|-----|
| Holding Pressure       | 60.0 - 100 | MPa |
| Screw Speed            | 100 - 150  | rpm |
| Injection instructions |            |     |

Cooling Time: Plasticization time + alpha or time without sticking in mold

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