

# DURANEX® 733LD

Polybutylene Terephthalate + SAN

Polyplastics Co., Ltd.

## Message:

Low warpage, LD Series, GF30% reinforced, Hydrolysis resistance

| General Information                               |                                                       |                   |                 |
|---------------------------------------------------|-------------------------------------------------------|-------------------|-----------------|
| UL YellowCard                                     | E213445-228866                                        |                   |                 |
| Filler / Reinforcement                            | Glass fiber reinforced material, 30% filler by weight |                   |                 |
| Features                                          | Low warpage                                           |                   |                 |
|                                                   | Hydrolysis resistance                                 |                   |                 |
| UL File Number                                    | E213445                                               |                   |                 |
| Forms                                             | Particle                                              |                   |                 |
| Processing Method                                 | Injection molding                                     |                   |                 |
| Part Marking Code (ISO 11469)                     | >PBT+SAN-GF30                                         |                   |                 |
| Physical                                          | Nominal Value                                         | Unit              | Test Method     |
| Density                                           | 1.46                                                  | 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                                    | 139                                                   | MPa               | ISO 527-2       |
| Tensile Strain (Break)                            | 2.0                                                   | %                 | ISO 527-2       |
| Flexural Modulus                                  | 9000                                                  | MPa               | ISO 178         |
| Flexural Stress                                   | 180                                                   | MPa               | ISO 178         |
| Impact                                            | Nominal Value                                         | Unit              | Test Method     |
| Charpy Notched Impact Strength                    | 7.6                                                   | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Thermal                                           | Nominal Value                                         | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 195                                                   | °C                | ISO 75-2/A      |
| Linear thermal expansion coefficient              |                                                       |                   | Internal method |
| Flow: 23 to 55°C                                  | 2.0E-5                                                | cm/cm/°C          | Internal method |
| Lateral: 23 to 55°C                               | 7.0E-5                                                | cm/cm/°C          | Internal method |
| Electrical                                        | Nominal Value                                         | Unit              | Test Method     |
| Volume Resistivity                                | 4.0E+16                                               | ohms · cm         | IEC 60093       |
| Dielectric Strength (3.00 mm)                     | 26                                                    | kV/mm             | IEC 60243-1     |
| Flammability                                      | Nominal Value                                         | Unit              | Test Method     |
| Flame Rating                                      | HB                                                    |                   | UL 94           |
| Additional Information                            | Nominal Value                                         |                   |                 |
| Color Number                                      | ED3002/EF2001                                         |                   |                 |
| 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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