

# DURANEX® 7390W

Polybutylene Terephthalate

Polyplastics Co., Ltd.

## Message:

Low warpage, Flame retardant, Standard, GF reinforced, Super low warpage

| General Information                               |                                                |                   |                 |
|---------------------------------------------------|------------------------------------------------|-------------------|-----------------|
| UL YellowCard                                     | E213445-229012                                 |                   |                 |
| Filler / Reinforcement                            | Glass fiber \glass flake, 30% filler by weight |                   |                 |
| Additive                                          | Flame retardancy                               |                   |                 |
| Features                                          | Low warpage                                    |                   |                 |
|                                                   | Flame retardancy                               |                   |                 |
| UL File Number                                    | E213445                                        |                   |                 |
| Forms                                             | Particle                                       |                   |                 |
| Processing Method                                 | Injection molding                              |                   |                 |
| Part Marking Code (ISO 11469)                     | >PBT-(GF+GS)30FR(17)                           |                   |                 |
| Physical                                          | Nominal Value                                  | Unit              | Test Method     |
| Density                                           | 1.65                                           | g/cm <sup>3</sup> | ISO 1183        |
| Water Absorption (23°C, 24 hr)                    | 0.10                                           | %                 | ISO 62          |
| Mechanical                                        | Nominal Value                                  | Unit              | Test Method     |
| Tensile Stress                                    | 103                                            | MPa               | ISO 527-2       |
| Tensile Strain (Break)                            | 2.0                                            | %                 | ISO 527-2       |
| Flexural Modulus                                  | 9470                                           | MPa               | ISO 178         |
| Flexural Stress                                   | 166                                            | MPa               | ISO 178         |
| Impact                                            | Nominal Value                                  | Unit              | Test Method     |
| Charpy Notched Impact Strength                    | 5.0                                            | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Thermal                                           | Nominal Value                                  | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 210                                            | °C                | ISO 75-2/A      |
| Linear thermal expansion coefficient              |                                                |                   | Internal method |
| Flow: 23 to 55°C                                  | 3.0E-5                                         | cm/cm/°C          | Internal method |
| Lateral: 23 to 55°C                               | 6.0E-5                                         | 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)                     | 25                                             | kV/mm             | IEC 60243-1     |
| Comparative Tracking Index                        | 275                                            | V                 | IEC 60112       |
| Flammability                                      | Nominal Value                                  | Unit              | Test Method     |
| Flame Rating                                      | V-0                                            |                   | 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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