

# LONGLITE® PBT 3010-104X

Polybutylene Terephthalate

CCP Group

## Message:

PBT 3010-104X is a 10% glass fiber reinforced black color injection molding grade.

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,10% Filler by Weight |                   |             |
| Appearance                                | Black                            |                   |             |
| Processing Method                         | Injection Molding                |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Density                                   | 1.37                             | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 15                               | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                                  |                   | ISO 294-4   |
| Across Flow                               | 1.1 to 1.3                       | %                 |             |
| Flow                                      | 0.60 to 0.80                     | %                 |             |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus (23°C)                    | 4200                             | MPa               | ISO 527-2   |
| Tensile Stress (Break, 23°C)              | 80.0                             | MPa               | ISO 527-2   |
| Tensile Strain (Break, 23°C)              | 4.0                              | %                 | ISO 527-2   |
| Flexural Modulus (23°C)                   | 3500                             | MPa               | ISO 178     |
| Flexural Stress (23°C)                    | 120                              | MPa               | ISO 178     |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)     | 4.5                              | kJ/m <sup>2</sup> | ISO 179/1eA |
| Thermal                                   | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature               |                                  |                   |             |
| 0.45 MPa, Unannealed                      | 210                              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                       | 170                              | °C                | ISO 75-2/A  |
| Melting Temperature                       | 225                              | °C                | ISO 11357-3 |
| Electrical                                | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                       | 1.0E+14                          | ohms              | IEC 60093   |
| Volume Resistivity                        | 1.0E+15                          | ohms·cm           | IEC 60093   |
| Electric Strength (2.00 mm)               | 20                               | kV/mm             | IEC 60243-1 |
| Flammability                              | Nominal Value                    | Unit              | Test Method |
| Flame Rating                              | HB                               |                   | UL 94       |
| Injection                                 | Nominal Value                    | Unit              |             |
| Drying Temperature                        | 120 to 140                       | °C                |             |
| Drying Time                               | 4.0                              | hr                |             |
| Processing (Melt) Temp                    | 240 to 270                       | °C                |             |

|                  |             |    |
|------------------|-------------|----|
| Mold Temperature | 60.0 to 100 | °C |
|------------------|-------------|----|

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