

# Bergadur™ PB40 CF30 U BK003

Polybutylene Terephthalate

PolyOne Corporation

## Message:

Carbon fiber filled, impact modified and flame retardant PBT compound

| General Information                                                                        |                                                        |                   |                 |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------|-----------------|
| Filler / Reinforcement                                                                     | Carbon fiber reinforced material, 30% filler by weight |                   |                 |
| Appearance                                                                                 | Black                                                  |                   |                 |
| Forms                                                                                      | Particle                                               |                   |                 |
| Processing Method                                                                          | Injection molding                                      |                   |                 |
| Physical                                                                                   | Nominal Value                                          | Unit              | Test Method     |
| Specific Gravity                                                                           | 1.48                                                   | g/cm <sup>3</sup> | ASTM D792       |
| Molding Shrinkage - Flow                                                                   | 0.10 - 0.30                                            | %                 | ASTM D955       |
| Mechanical                                                                                 | Nominal Value                                          | Unit              | Test Method     |
| Tensile Strength <sup>1</sup>                                                              | 130                                                    | MPa               | ASTM D638       |
| Flexural Modulus <sup>2</sup>                                                              | 19500                                                  | MPa               | ASTM D790       |
| Flexural Strength <sup>3</sup>                                                             | 240                                                    | MPa               | ASTM D790       |
| Impact                                                                                     | Nominal Value                                          | Unit              | Test Method     |
| Notched Izod Impact (23°C, 3.20 mm)                                                        | 55                                                     | J/m               | ASTM D256       |
| Thermal                                                                                    | Nominal Value                                          | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)                           | 210                                                    | °C                | ASTM D648       |
| Electrical                                                                                 | Nominal Value                                          | Unit              | Test Method     |
| Surface Resistivity                                                                        | 10 - 1.0E+4                                            | ohms              | ASTM D257       |
| Flammability                                                                               | Nominal Value                                          | Unit              | Test Method     |
| Flame Rating (1.60 mm)                                                                     | V-0                                                    |                   | Internal method |
| Injection                                                                                  | Nominal Value                                          | Unit              |                 |
| Drying Temperature                                                                         | 110 - 130                                              | °C                |                 |
| Drying Time                                                                                | 4.0 - 6.0                                              | hr                |                 |
| Rear Temperature                                                                           | 240 - 270                                              | °C                |                 |
| Middle Temperature                                                                         | 240 - 270                                              | °C                |                 |
| Front Temperature                                                                          | 240 - 270                                              | °C                |                 |
| Mold Temperature                                                                           | 75.0 - 95.0                                            | °C                |                 |
| Injection instructions                                                                     |                                                        |                   |                 |
| Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW |                                                        |                   |                 |
| NOTE                                                                                       |                                                        |                   |                 |
| 1.                                                                                         | 5.0 mm/min                                             |                   |                 |
| 2.                                                                                         | 1.3 mm/min                                             |                   |                 |
| 3.                                                                                         | 1.3 mm/min                                             |                   |                 |

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