

# Tecodur® PB70 GR20 BK002 TD21

Polybutylene Terephthalate + PET

Eurotec Engineering Plastics

Message:

PBT/PET, 20% glass fiber reinforced, flame retardant - halogen (RoHS compliant), impact modified, black

| General Information                          |                                  |       |             |
|----------------------------------------------|----------------------------------|-------|-------------|
| Filler / Reinforcement                       | Glass Fiber,20% Filler by Weight |       |             |
| Additive                                     | Flame Retardant                  |       |             |
|                                              | Impact Modifier                  |       |             |
| Features                                     | Flame Retardant                  |       |             |
|                                              | Impact Modified                  |       |             |
| Agency Ratings                               | EC 1907/2006 (REACH)             |       |             |
| RoHS Compliance                              | RoHS Compliant                   |       |             |
| Appearance                                   | Black                            |       |             |
| Processing Method                            | Injection Molding                |       |             |
| Resin ID (ISO 1043)                          | (PBT+PET)-I GF20 FR(17)          |       |             |
| Physical                                     | Nominal Value                    | Unit  | Test Method |
| Density                                      | 1.52                             | g/cm³ | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.20                             | %     | ISO 62      |
| Moisture Content                             | < 0.080                          | %     | ISO 15512   |
| Back Pressure                                | Low                              |       |             |
| Mechanical                                   | Nominal Value                    | Unit  | Test Method |
| Tensile Modulus (23°C)                       | 7500                             | MPa   | ISO 527-2   |
| Tensile Stress (Break, 23°C)                 | 100                              | MPa   | ISO 527-2   |
| Tensile Strain (Break, 23°C)                 | 3.0                              | %     | ISO 527-2   |
| Impact                                       | Nominal Value                    | Unit  | Test Method |
| Notched Izod Impact Strength                 |                                  |       | ISO 180/1A  |
| -30°C                                        | 9.0                              | kJ/m² |             |
| 23°C                                         | 10                               | kJ/m² |             |
| Unnotched Izod Impact Strength               |                                  |       | ISO 180/1U  |
| -30°C                                        | 60                               | kJ/m² |             |
| 23°C                                         | 65                               | kJ/m² |             |
| Thermal                                      | Nominal Value                    | Unit  | Test Method |
| Heat Deflection Temperature                  |                                  |       |             |
| 0.45 MPa, Unannealed                         | 215                              | °C    | ISO 75-2/B  |
| 1.8 MPa, Unannealed                          | 175                              | °C    | ISO 75-2/A  |

| Melting Temperature <sup>1</sup>         | 225 to 255    | °C      | ISO 11357-3    |
|------------------------------------------|---------------|---------|----------------|
| Electrical                               | Nominal Value | Unit    | Test Method    |
| Surface Resistivity                      | 1.0E+14       | ohms    | IEC 60093      |
| Volume Resistivity                       | 1.0E+16       | ohms·cm | IEC 60093      |
| Comparative Tracking Index (Solution A)  | 225           | V       | IEC 60112      |
| Flammability                             | Nominal Value | Unit    | Test Method    |
| Flame Rating                             |               |         | UL 94          |
| 0.750 mm                                 | V-2           |         |                |
| 1.60 mm                                  | V-0           |         |                |
| Glow Wire Flammability Index (2.00 mm)   | 960           | °C      | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (2.00 mm) | 725           | °C      | IEC 60695-2-13 |
| Injection                                | Nominal Value | Unit    |                |
| Drying Temperature                       | 120           | °C      |                |
| Drying Time                              | 4.0 to 6.0    | hr      |                |
| Hopper Temperature                       | 50.0 to 70.0  | °C      |                |
| Processing (Melt) Temp                   | 240 to 270    | °C      |                |
| Mold Temperature                         | 60.0 to 110   | °C      |                |
| Injection Rate                           | Moderate-Fast |         |                |
| Holding Pressure                         | 40.0 to 80.0  | MPa     |                |
| NOTE                                     |               |         |                |
| 1.                                       | 10 K/min      |         |                |

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