

# Tecodur® PB70 GR40 NL100

Polybutylene Terephthalate  
Eurotec Engineering Plastics

Message:  
PBT, 40% glass fiber reinforced, natural

| General Information                          |                                  |                   |             |
|----------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                       | Glass Fiber,40% Filler by Weight |                   |             |
| Agency Ratings                               | EC 1907/2006 (REACH)             |                   |             |
| RoHS Compliance                              | RoHS Compliant                   |                   |             |
| Appearance                                   | Natural Color                    |                   |             |
| Processing Method                            | Injection Molding                |                   |             |
| Resin ID (ISO 1043)                          | PBT GF40                         |                   |             |
| Physical                                     | Nominal Value                    | Unit              | Test Method |
| Density                                      | 1.61                             | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.10                             | %                 | ISO 62      |
| Moisture Content                             | < 0.080                          | %                 | ISO 15512   |
| Back Pressure                                | Low                              |                   |             |
| Mechanical                                   | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus (23°C)                       | 14000                            | MPa               | ISO 527-2   |
| Tensile Stress (Break, 23°C)                 | 140                              | MPa               | ISO 527-2   |
| Tensile Strain (Break, 23°C)                 | 2.0                              | %                 | ISO 527-2   |
| Impact                                       | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact Strength                 |                                  |                   | ISO 180/1A  |
| -30°C                                        | 9.0                              | kJ/m <sup>2</sup> |             |
| 23°C                                         | 11                               | kJ/m <sup>2</sup> |             |
| Thermal                                      | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature                  |                                  |                   |             |
| 0.45 MPa, Unannealed                         | 220                              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                          | 210                              | °C                | ISO 75-2/A  |
| Melting Temperature <sup>1</sup>             | 225                              | °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   |
| Flammability                                 | Nominal Value                    | Unit              | Test Method |
| Flame Rating                                 |                                  |                   | UL 94       |
| 0.750 mm                                     | HB                               |                   |             |
| 1.60 mm                                      | HB                               |                   |             |
| Injection                                    | Nominal Value                    | Unit              |             |

|                        |              |     |
|------------------------|--------------|-----|
| Drying Temperature     | 120          | °C  |
| Drying Time            | 2.0 to 4.0   | hr  |
| Hopper Temperature     | 50.0 to 70.0 | °C  |
| Processing (Melt) Temp | 250 to 270   | °C  |
| Mold Temperature       | 60.0 to 110  | °C  |
| Injection Rate         | Fast         |     |
| Holding Pressure       | 40.0 to 80.0 | MPa |

#### NOTE

1. 10 K/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

