

# Tecolen® HP10 GR10 NL

Polypropylene Homopolymer  
Eurotec Engineering Plastics

Message:  
PPHP, 10% glass fiber reinforced, natural

| General Information                               |                                  |                   |             |
|---------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Glass Fiber,10% Filler by Weight |                   |             |
| Features                                          | Homopolymer                      |                   |             |
| Agency Ratings                                    | EC 1907/2006 (REACH)             |                   |             |
| RoHS Compliance                                   | RoHS Compliant                   |                   |             |
| Appearance                                        | Natural Color                    |                   |             |
| Processing Method                                 | Injection Molding                |                   |             |
| Resin ID (ISO 1043)                               | PP GF10                          |                   |             |
| Physical                                          | Nominal Value                    | Unit              | Test Method |
| Density                                           | 0.960                            | g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                                        | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus (23°C)                            | 3000                             | MPa               | ISO 527-2   |
| Tensile Stress (Break, 23°C)                      | 50.0                             | MPa               | ISO 527-2   |
| Tensile Strain (Break, 23°C)                      | 6.0                              | %                 | ISO 527-2   |
| Impact                                            | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)               | 6.0                              | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                           | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 130                              | °C                | ISO 75-2/A  |
| Melting Temperature <sup>1</sup>                  | 165 to 170                       | °C                | ISO 11357-3 |
| Electrical                                        | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                               | 1.0E+15                          | ohms              | IEC 60093   |
| Volume Resistivity                                | 1.0E+15                          | 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              |             |
| Hopper Temperature                                | < 60.0                           | °C                |             |
| Processing (Melt) Temp                            | 200 to 240                       | °C                |             |
| Mold Temperature                                  | 20.0 to 50.0                     | °C                |             |
| Injection Rate                                    | Slow-Moderate                    |                   |             |
| Holding Pressure                                  | 40.0 to 80.0                     | MPa               |             |
| Back Pressure                                     | Low                              |                   |             |

## NOTE

1. 10 K/min

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