

# Fibremod™ GD301HPB

Compounded Polypropylene

Borealis AG

## Message:

Fibremod GD301HPB is a 30 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding.

| General Information                                                                                                                                                 |                                                       |                   |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------|--------------|
| Filler / Reinforcement                                                                                                                                              | Glass fiber reinforced material, 30% filler by weight |                   |              |
| Features                                                                                                                                                            | Recyclable materials                                  |                   |              |
| Uses                                                                                                                                                                | Parts under the hood of a car                         |                   |              |
|                                                                                                                                                                     | Application in Automobile Field                       |                   |              |
| Processing Method                                                                                                                                                   | Injection molding                                     |                   |              |
| Physical                                                                                                                                                            | Nominal Value                                         | Unit              | Test Method  |
| Density (23°C)                                                                                                                                                      | 1.17                                                  | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                                                                                                           | 5.0                                                   | g/10 min          | ISO 1133     |
| Mechanical                                                                                                                                                          | Nominal Value                                         | Unit              | Test Method  |
| Tensile Stress (Yield, 23°C)                                                                                                                                        | 105                                                   | MPa               | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                                                                                                                                       | 7400                                                  | MPa               | ISO 178      |
| Flexural Stress                                                                                                                                                     | 130                                                   | MPa               | ISO 178      |
| Impact                                                                                                                                                              | Nominal Value                                         | Unit              | Test Method  |
| Charpy Notched Impact Strength                                                                                                                                      |                                                       |                   | ISO 179      |
| -30°C                                                                                                                                                               | 8.0                                                   | kJ/m <sup>2</sup> | ISO 179      |
| 23°C                                                                                                                                                                | 9.5                                                   | kJ/m <sup>2</sup> | ISO 179      |
| Notched Izod Impact (23°C)                                                                                                                                          | 9.0                                                   | kJ/m <sup>2</sup> | ISO 180/1A   |
| Unnotched Izod Impact Strength (23°C)                                                                                                                               | 30                                                    | kJ/m <sup>2</sup> | ISO 180/1U   |
| Thermal                                                                                                                                                             | Nominal Value                                         | Unit              | Test Method  |
| Heat Deflection Temperature (1.8 MPa, Unannealed)                                                                                                                   | 150                                                   | °C                | ISO 75-2/Ae  |
| Flammability                                                                                                                                                        | Nominal Value                                         | Unit              | Test Method  |
| Flammability (1.00 mm)                                                                                                                                              |                                                       | mm/min            | ISO 3795     |
| Injection                                                                                                                                                           | Nominal Value                                         | Unit              |              |
| Mold Temperature                                                                                                                                                    | 30.0 - 50.0                                           | °C                |              |
| Holding Pressure                                                                                                                                                    | 30.0 - 60.0                                           | MPa               |              |
| Injection instructions                                                                                                                                              |                                                       |                   |              |
| Feeding Temperature: 40 - 80 °C<br>Mass Temperature: 230 - 280 °C<br>Back Pressure: Low to Medium<br>Screw Speed: Low to Medium<br>Flow Front Speed: 100 - 200 mm/s |                                                       |                   |              |
| NOTE                                                                                                                                                                |                                                       |                   |              |
| 1.                                                                                                                                                                  | 2.0 mm/min                                            |                   |              |

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