

# Fibremod™ GD301HPB

复合聚丙烯

Borealis AG

## Technical Data

### Product Description

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

#### Applications

Fibremod GD301HPB has been developed especially for the automotive industry.

- Door module carriers
- Fans and shrouds
- Air bag housings
- Pedal carriers
- Pump housings

#### Special features

- Excellent mechanical properties even at high temperatures

### General

Filler / Reinforcement	• 玻璃纤维增强材料, 30% Filler by Weight
Features	• 可回收材料
Uses	• 泵件 • 汽车的发动机罩下的零件 • 汽车领域的应用 • 外壳
Automotive Specifications	• FORD WSS-M4D854-B1
Processing Method	• 注射成型

Physical	额定值 单位制	测试方法
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	额定值 单位制	测试方法
Tensile Stress (屈服, 23°C)	105 MPa	ISO 527-2/50
Flexural Modulus <sup>3</sup>	7400 MPa	ISO 178
Flexural Stress	130 MPa	ISO 178
Impact	额定值 单位制	测试方法
Charpy Notched Impact Strength		ISO 179
-30°C	8.0 kJ/m <sup>2</sup>	
23°C	9.5 kJ/m <sup>2</sup>	
Notched Izod Impact Strength (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	额定值 单位制	测试方法
Heat Deflection Temperature (1.8 MPa, 未退火)	150 °C	ISO 75-2/Ae
Flammability	额定值 单位制	测试方法
可燃性 (1.00 mm)	< 100 mm/min	ISO 3795

Injection	额定值 单位制
Drying Temperature	95 到 105 °C
Drying Time	2.0 hr
Processing (Melt) Temp	230 到 280 °C
Mold Temperature	30 到 50 °C
Holding Pressure	30.0 到 60.0 MPa

### Injection Notes

Feeding Temperature: 40 - 80 °C

Back Pressure: Low to Medium

Screw Speed: Low to Medium

Flow Front Speed: 100 - 200 mm/s