

## PRODUCT DATA SHEET

09.07.2015 Ed.6



# Polypropylene

## BJ100HP

Polypropylene Copolymer

### Description

**BJ100HP** is a special low viscosity polypropylene compound developed to fit the production of PP-GF composites in the direct LFT compression and injection moulding process as well as in combination with LGF concentrates on the injection moulding process. The product is available in natural colour.

### Applications

**BJ100HP** has been developed especially for applications like:

Front end carriers  
Under body shieldings  
Door module carriers

Dashboard carriers  
Battery supports

### Special Features

**BJ100HP** is equipped with an additive package for optimum coupling between polymer matrix and glass fibres. The interaction leads to optimum stiffness and impact strength of the components

Long term high heat stabilised

### Physical Properties

| Property                                       | Typical Value         | Test Method |
|------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work |                       |             |
| Density                                        | 904 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                | 90 g/10min            | ISO 1133    |
| Flexural Modulus (2 mm/min)                    | 1.250 MPa             | ISO 178     |
| Tensile Strength (50 mm/min)                   | 25 MPa                | ISO 527-2   |
| Heat Deflection Temperature B (0,45 MPa)       | 72 °C                 | ISO 75-2    |
| Charpy Impact Strength, notched (23 °C)        | 4 kJ/m <sup>2</sup>   | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C)       | 2 kJ/m <sup>2</sup>   | ISO 179/1eA |

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

### Processing Techniques

The actual conditions will depend on the type of equipment used.

### Injection Moulding

This product is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

|                     |               |
|---------------------|---------------|
| Feeding temperature | 40 - 80 °C    |
| Mass temperature    | 220 - 260 °C  |
| Holding pressure    | 30 - 60 bar   |
| Back pressure       | Low to medium |
| Mould temperature   | 30 - 50 °C    |

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)

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**Polypropylene**  
**BJ100HP**

Screw speed  
Flow front speed

Low to medium  
100 - 200 m/min

**Storage**

**BJ100HP** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

**Safety**

The product is not classified as dangerous.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

**Recycling**

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

**Regional Availability**

Europe

For information on regional availability please contact Borealis Sales Representative.

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**BJ100HP****Disclaimer**

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