



# 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

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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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