08.05.2025 Ed.8

PRODUCT DATA SHEET

Polypropylene

BJ100HP

Polypropylene Heterophasic 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.

Typical characteristics

BJ100HP can be described with following typical characteristics:

Long term high heat stabilised

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.

Front end carriers	Door module carriers
Under body shieldings	Dashboard carriers

Physical properties

Property	Typical value *	Unit	Test method
Density	904	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	90	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	1250	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/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	2	kJ/m²	ISO 179-1/1eA

* Data should not be used for specification work

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

Processing techniques

This product is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following parameters should be used as guidelines:

Processing setting	Typical value/range
Feeding temperature	40 - 80 °C
Mass temperature	220 - 260 °C
Back pressure	Low to medium
Holding pressure	30 - 60 MPa
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

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

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Packaging and storage

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

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

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The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.
To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.
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