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PRODUCT DATA SHEET

Polypropylene

HB601WG

Polypropylene Homopolymer

Description

HB601WG is a polypropylene homopolymer intended for injection moulding and blow moulding. The product is available in natural and is suitable for high-gloss applications.

This material has excellent balanced mechanical properties and is easy to process.

Typical characteristics

HB601WG can be described with following typical characteristics:

High heat stabilised
Detergent resistant
UL listed

Applications

HB601WG is intended for following applications:

Aesthetical parts
Appliances
Household applications
Dishwashers components
Washing machine parts
Small appliances
Heat exchangers

Physical properties

Property	Typical value *	Unit	Test method
Density	900	kg/m³	ISO 1183-1/Method A
Flexural modulus	1400	MPa	ISO 178
Melt flow rate (230 °C/2.16 kg)	2	g/10min	ISO 1133-1
Tensile strength (50 mm/min)	35	MPa	ISO 527-2
Heat deflection temperature B (0.45 MPa)	85	°C	ISO 75-2
Charpy impact strength, notched (23 °C)	6	kJ/m²	ISO 179-1/1eA

* Data should not be used for specification work

Processing techniques

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

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

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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

Packaging and storage

HB601WG 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.

Disclaimer

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.
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