



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.

Applications

HB601WG has been developed especially for applications like:

- | | |
|------------------------|------------------|
| Household applications | Small appliances |
| Dishwashers components | Heat exchangers |
| Washing machine parts | |

Special Features

- | | |
|----------------------|----------------------------|
| High heat stabilised | UL approval according UL94 |
| Detergent resistant | |

Physical Properties

| Property | Typical Value | Test Method |
|--|--|-------------|
| | Data should not be used for specification work | |
| Density | 900 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 2 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 1.400 MPa | ISO 178 |
| 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/m ² | 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 |
| Back pressure | Low to medium |
| Holding pressure | 30 - 60 MPa |



Polypropylene HB601WG

| | |
|-------------------|----------------|
| Mould temperature | 30 - 50 °C |
| Screw speed | Low to medium |
| Flow front speed | 100 - 200 mm/s |

Storage

HB601WG 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.



Polypropylene
HB601WG

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.

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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.