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# PRODUCT DATA SHEET

## Polypropylene

# HB600TF

### Polypropylene Homopolymer

## Description

HB600TF is a low melt flow rate polypropylene homopolymer intended for extrusion and thermoforming. The product is available in natural colour.

## Typical characteristics

HB600TF can be described with following typical characteristics:

Good processability
Very good melt stability
Good contact clarity
UL94 approved

## Applications

HB600TF is intended for following applications:

Thermoforming applications
Houseware
Thin wall packaging
Washing machines, dishwashers and dryers
Strapping stretch tape and monofilaments

## Physical properties

| Property | Typical value * | Unit | Test method |
|---|---|---|---|
| Density | 905 | kg/m³ | ISO 1183-1/Method A |
| Flexural modulus | 1300 | 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 |
| Charpy impact strength, notched (23 °C) | 3 | kJ/m² | ISO 179-1/1eA |
| Heat deflection temperature B (0.45 MPa) | 80 | °C | ISO 75-2 |

* Data should not be used for specification work

## 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:

| 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 |

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## Packaging and storage

HB600TF 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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