

## 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.

Cas No. 9003-07-0

#### Typical characteristics

HB600TF can be described with following typical characteristics:

Very 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/m <sup>3</sup>	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/m <sup>2</sup>	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

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:

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

### 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](http://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](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

For information on regional availability please contact Borealis Sales Representative.

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