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.

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