PRODUCT DATA SHEET

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Polypropylene

HF700SA

Polypropylene Homopolymer

Description

HF700SA is a polypropylene homopolymer intended for injection 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

HF700SA can be described with following typical characteristics:

High heat stabilised
Excellent flowability
Excellent antistatic performance
UL94 Listed

Applications

HF700SA is intended for following applications:

Small appliances
Household applications

Physical properties

Property	Typical value *	Unit	Test method
Density	905	kg/m³	ISO 1183-1
Melt flow rate (230 °C/2.16 kg)	21.0	g/10min	ISO 1133-1
Flexural modulus	1350	MPa	ISO 178
Heat deflection temperature B (0.45 MPa)	80	°C	ISO 75-2
Tensile strength (50 mm/min)	35	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	2	kJ/m²	ISO 179-1

* 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.

The following moulding 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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HF700SA

Packaging and storage

HF700SA 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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