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PRODUCT DATA SHEET

Polypropylene

BE52

Polypropylene Homopolymer

Description

BE52 is a polypropylene homopolymer intended for blow moulding and thermoforming. The product is available in natural colour.

This material has excellent balanced mechanical properties and is easy to process.

Typical characteristics

BE52 can be described with following typical characteristics:

High heat stabilised	UL94 listed

Applications

BE52 is intended for following applications:

Washing machine parts	Dishwashers components

Physical properties

Property	Typical value *	Unit	Test method
Density	900	kg/m³	ISO 1183-1/Method A
Melt flow rate (230 °C/2.16 kg)	0.25	g/10min	ISO 1133-1
Flexural modulus	1300	MPa	ISO 178
Charpy impact strength, notched (23 °C)	8	kJ/m²	ISO 179-1/1eA
Heat deflection temperature B (0.45 MPa)	98	°C	ISO 75-2
Tensile strength (50 mm/min)	35	MPa	ISO 527-2

* Data should not be used for specification work

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Other properties

Property	Typical value *	Unit	Test method
Mould average shrinkage[1]	2.0	%	Borealis test method

* Data should not be used for specification work

[1] *Values may only be used as indication and should not be used directly in mould design without prior validation.*

Processing techniques

Can be processed on all machines suitable for normal PP extrusion. Following moulding parameters should be used as guidelines:

Processing setting	Typical value/range
Barrel temperature	190 - 230 °C
Cylinder temperature	180 - 230 °C
Die temperature	190 - 230 °C
Melt temperature	190 - 230 °C

The actual conditions will depend on the type of equipment used.

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Packaging and storage

BE52 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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Borealis AG | Trabrennstrasse 6-8 | A-1020 Vienna | Austria
Telephone: +43 1 22 400 0* | Fax: +43 1 22 400 333
Website www.borealisgroup.com

Manufacturer website: https://www.borealisgroup.com/