PRODUCT DATA SHEET

22.12.2022 Ed.10

Polypropylene

BC612WG

Polypropylene Block Copolymer

Description

BC612WG is a polypropylene copolymer intended for injection moulding. The product is available in natural colour.

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

Typical characteristics

BC612WG can be described with following typical characteristics:

Long term high heat stabilised
UL approval according UL94
Detergent resistant

Applications

BC612WG is intended for following applications:

Dishwashers components
Washing machine parts
Household applications

Physical properties

Property	Typical value *	Unit	Test method
Density	900	kg/m³	ISO 1183
Melt flow rate (230 °C/2.16 kg)	5	g/10min	ISO 1133-1
Flexural modulus (2 mm/min)	1100	MPa	ISO 178
Heat deflection temperature B (0.45 MPa)	70	°C	ISO 75-2
Tensile strength (50 mm/min)	26	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	9	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	3	kJ/m²	ISO 179-1

* 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.

Processing techniques

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

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

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Packaging and storage

BC612WG 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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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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